SERVICE MANUAL

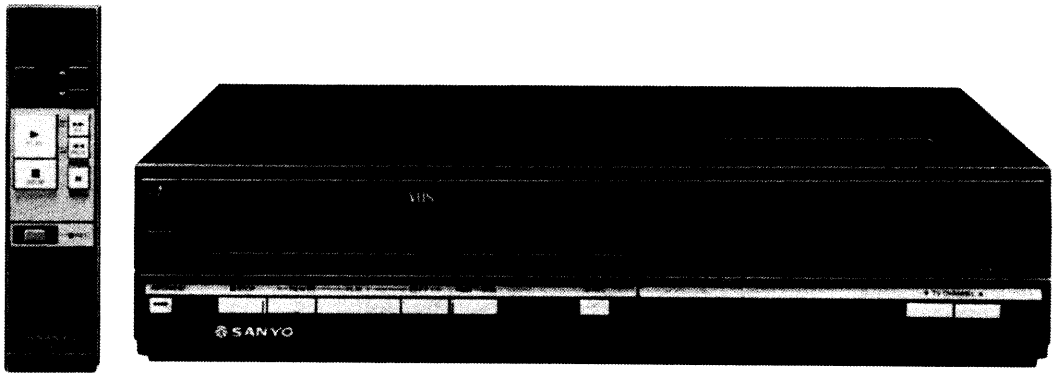
SANYO

COLOUR VIDEO CASSETTE RECORDER

VHR-1100

VHS HQ

PAL



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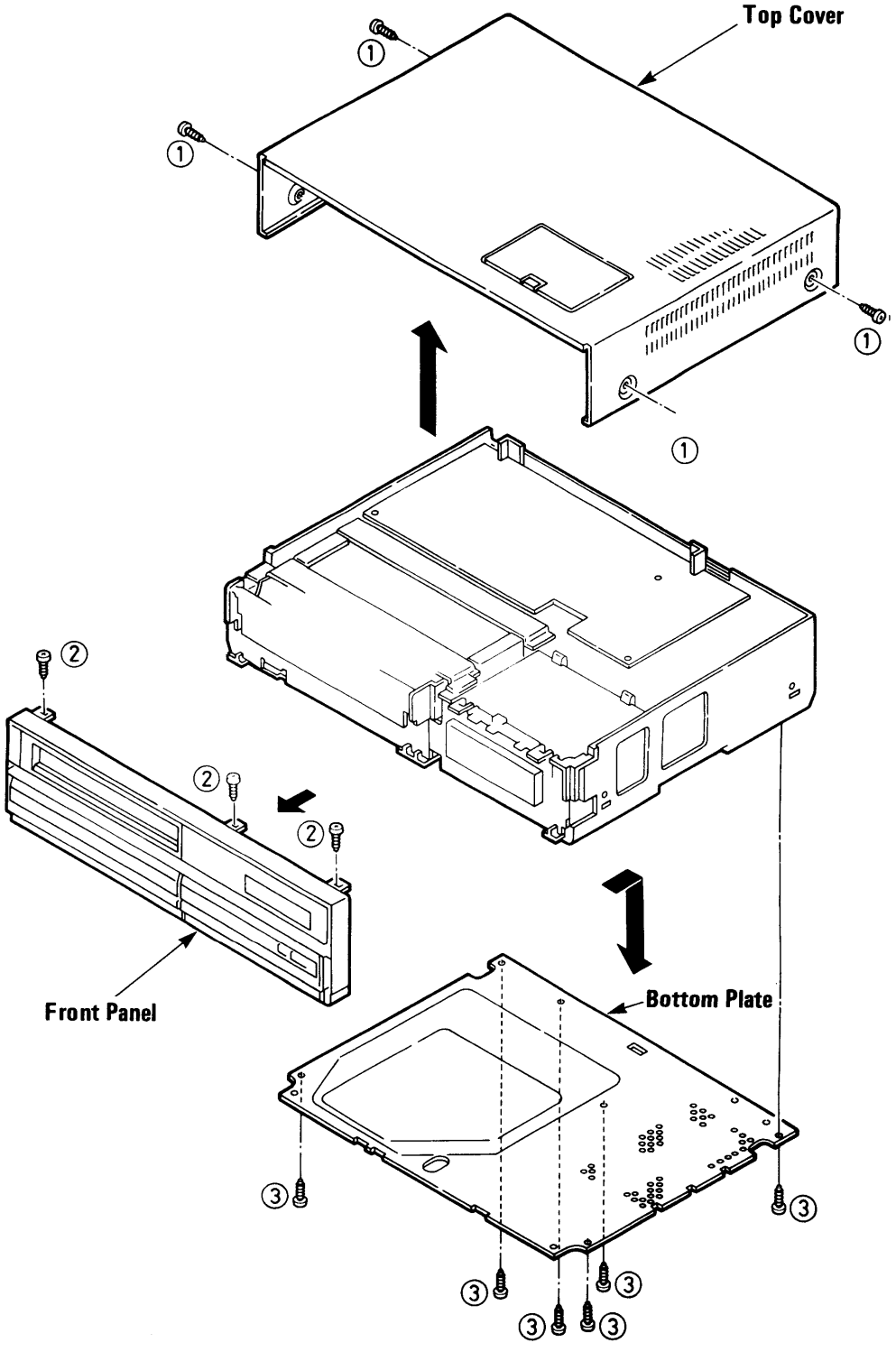
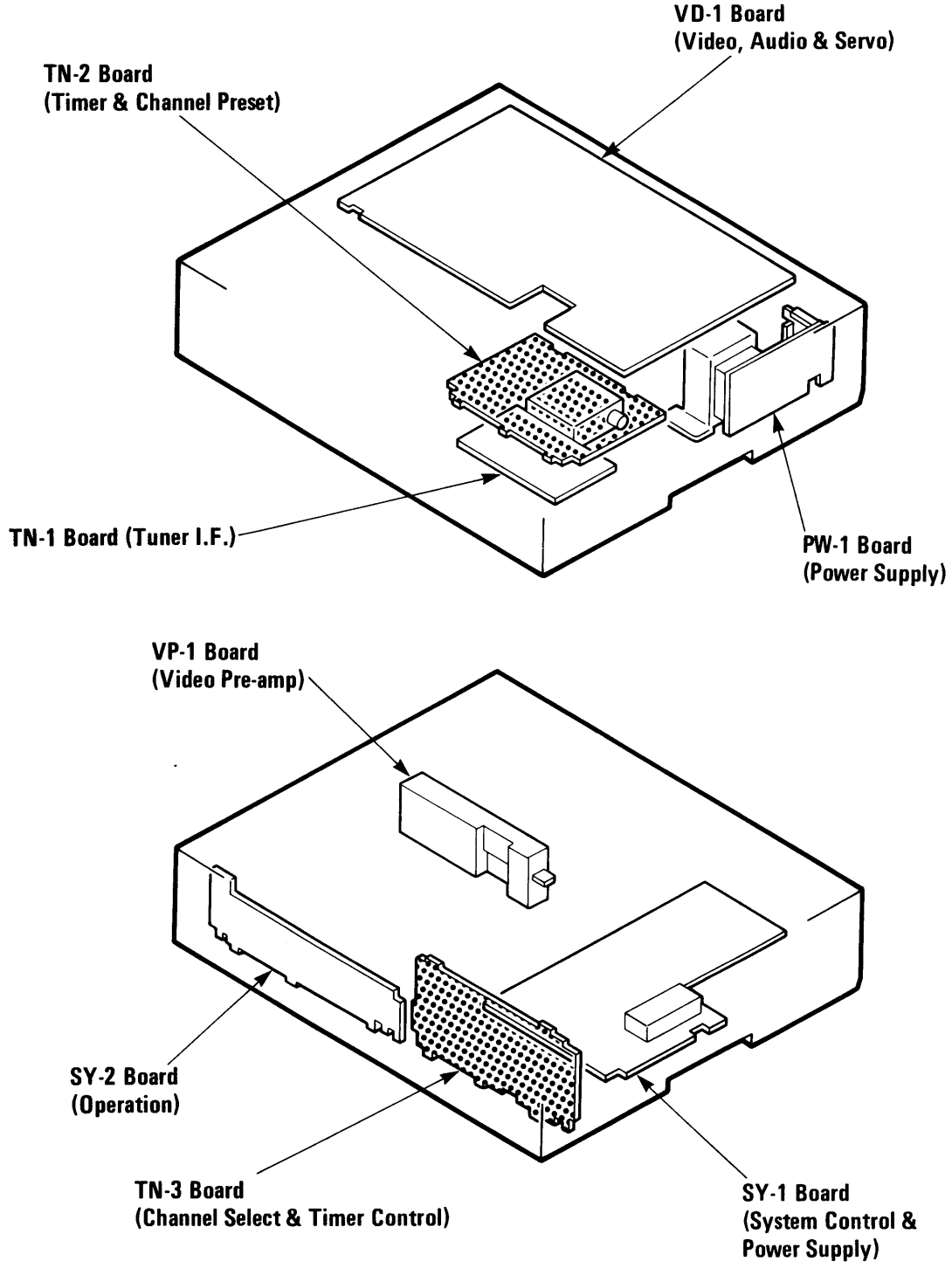
1. CABINET DISASSEMBLY



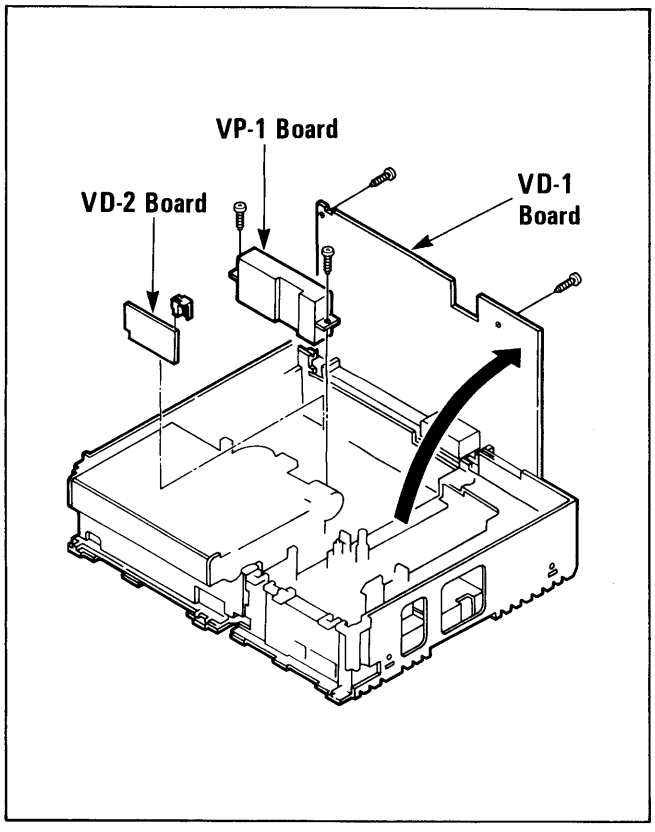
2. CIRCUIT BOARD DISASSEMBLY

LOCATION OF THE MAIN BOARDS

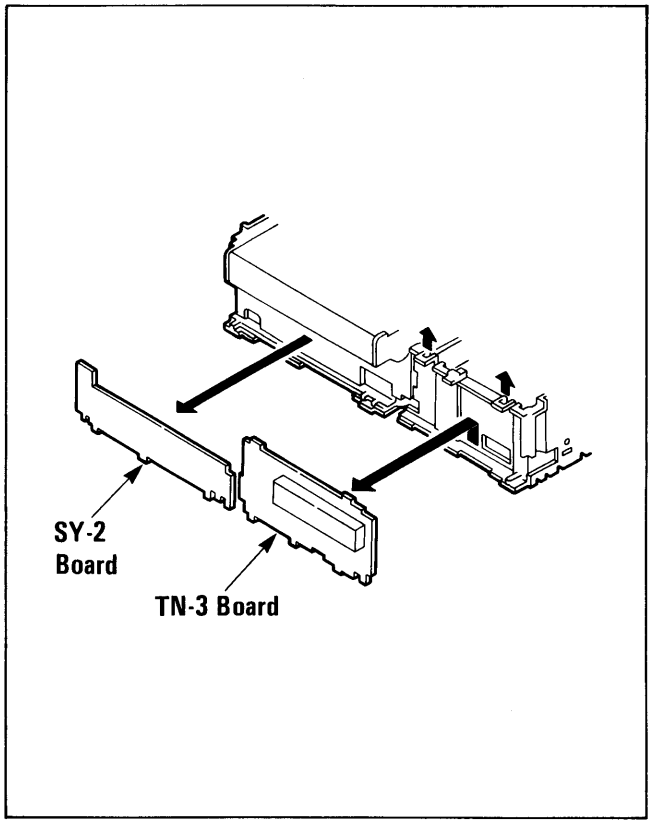


3. REMOVAL OF THE MAIN BOARDS

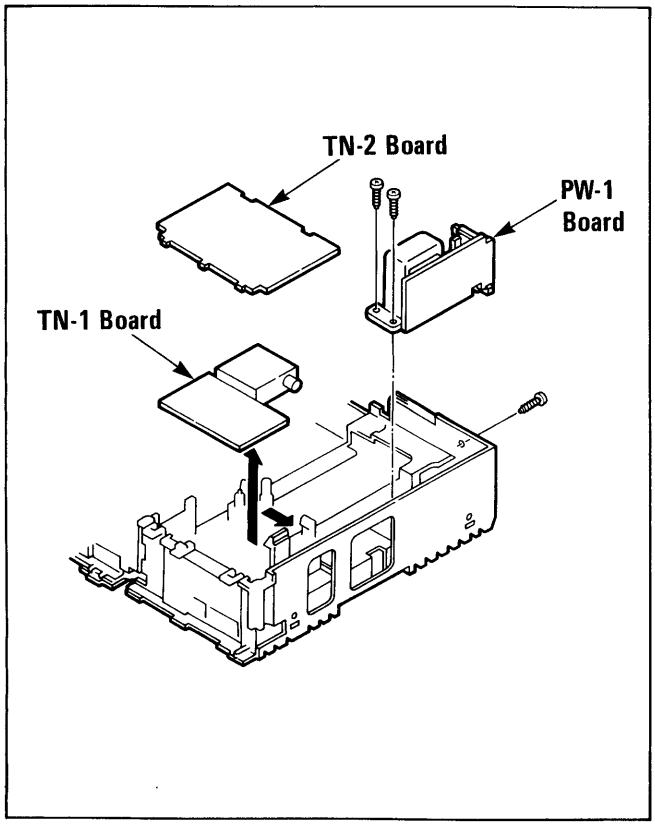
VD-1 Board, VD-2 Board & VP-1 Board



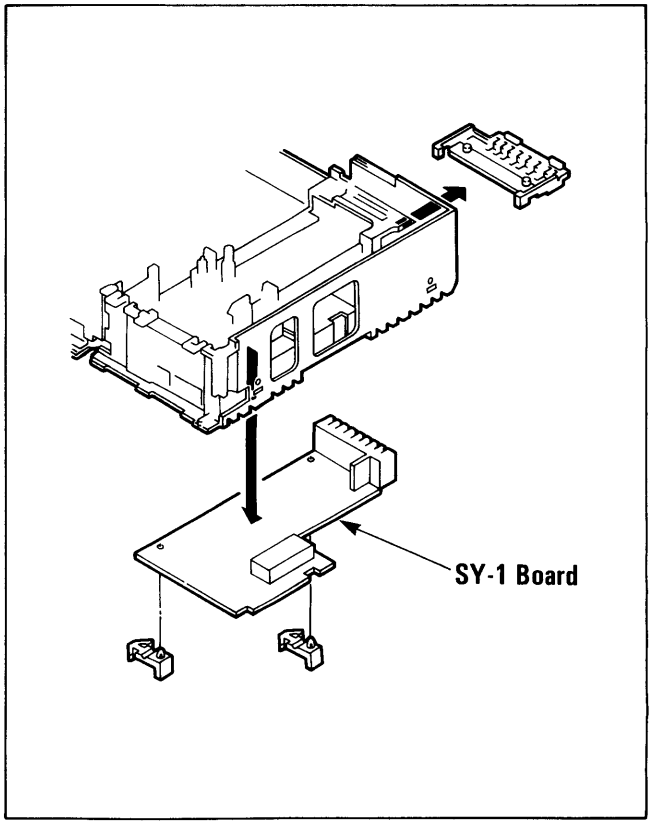
SY-2 Board & TN-3 Board



TN-1 Board, TN-2 Board & PW-1 Board



SY-1 Board



4. ELECTRICAL ADJUSTMENTS

PREPARATIONS

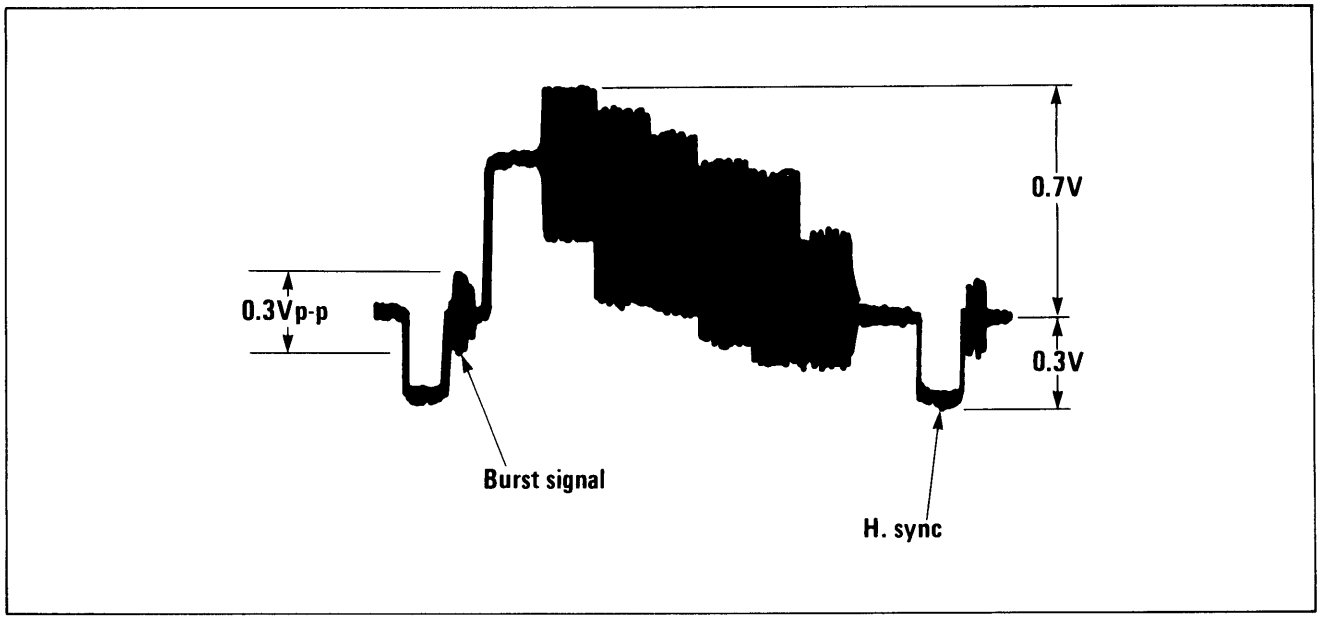
EQUIPMENTS

- Colour TV monitor
- Colour-bar generator (with RF and LINE OUTPUT)
- Audio frequency oscillator
- Attenuator
- Oscilloscope (dual trace; frequency response: 10MHz or more; probe: 10:1)
- Frequency counter (countable to 10MHz or higher)
- Digital voltmeter
- AC voltmeter
- In/output probes
- DC power supply
- Alignment cassette (VHJ-0008) Colour Bar 1KHz
- Alignment cassette (VHJ-0009) Monoscope 6KHz
- Alignment cassette (VHJ-0010) RF Sweep

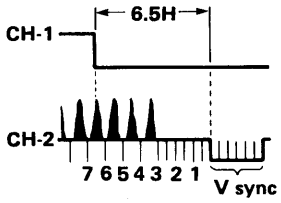
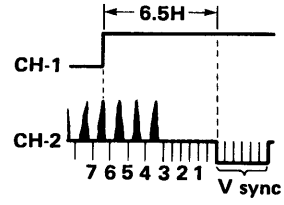
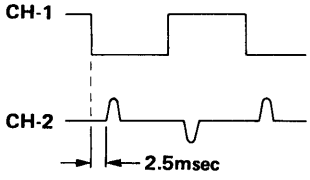
SET-UP

Because the RF input signal is used for adjustment of circuits, connect the colour-bar generator to the ANT IN terminal of the VCR. The RF input signal is processed by the tuner and IF circuit. It is important that the video output signal of the IF circuit satisfy the items shown in figure. Connect the oscilloscope to the VIDEO OUTPUT terminal of the video circuit, and then check the video output signal.

- The amplitude of the sync signal should be approximately 0.3Vp-p.
- The amplitude of the video signal should be approximately 0.7Vp-p.
- While observing the oscilloscope or TV screen, make fine-tuning adjustments so that the colour burst amplitude is approximately 0.3Vp-p.
- Check to be sure that there is no spike noise in the sync part of the horizontal sync signal.

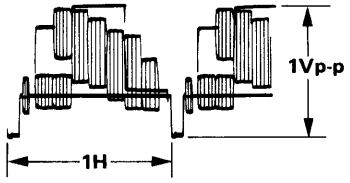
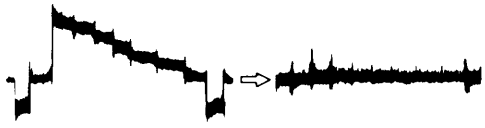
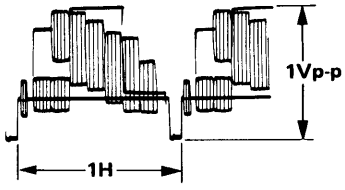
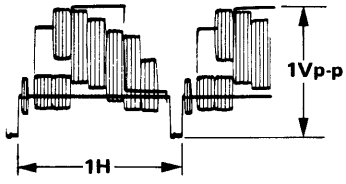


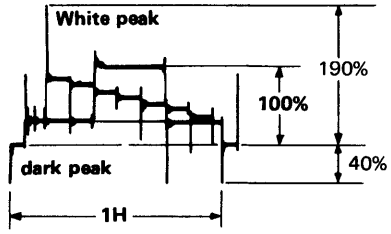
SERVO SYSTEM ..... VD-1 Board

No.	Item	Input	Mode	Point	Location	Remark
1	CH-1 SWITCHING POSITION	Alignment cassette (VHJ-0009)	PLAY	TP1001 (VIDEO OUT terminal) CN4008 (1) (trigger)	SVR4001	 Adjust SVR4001 so that the phase of the leading edge of the vertical sync signal is delayed 6.5 ±0.5H from the fall of the CH-1 waveform.
2	CH-2 SWITCHING POSITION	Alignment cassette (VHJ-0009)	PLAY	TP1001 (VIDEO OUT terminal) CN4008 (1) (trigger)	SVR4002	 Adjust SVR4002 so that the phase of the leading edge of the vertical sync signal is delayed 6.5 ±0.5H from the rise of the CH-1 waveform.
3	TRACKING	Colour bar from Colour bar generator	REC ⬇ PLAY	CN4008 (4) CN4008 (1) (trigger)	SVR4003	 1. Playback the recorded portion, and set the tracking control to the center click position. 2. Adjust SVR4003 so that the phase of the CH-2 waveform is 0.5 ±0.5msec after the fall of the CH-1 waveform. In this instance, delay the CH-2 waveform.

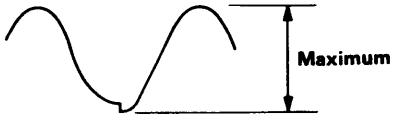
VIDEO LUMINANCE SYSTEM ..... VD-1 Board

NOTE: (1) Set the HQ switch to the "OFF" position before adjustments.
(2) When adjusting No. 1, No. 3 and No. 5 terminate VIDEO OUTPUT terminal at 75 ohms.

No.	Item	Input	Mode	Point	Location	Remark
1	E-E LEVEL	Colour bar from Colour bar generator	E-E	TP1001 (VIDEO OUTPUT terminal)	SVR1008	 Adjust SVR1008 so that the level is 1.00 ±0.05 Vp-p.
2	COMB NOISE CANCELLER	Alignment cassette (VHJ-0008)	PLAY (Colour bar)	TP1002	SVR1003	 Adjust SVR1003 so that the video signal is cancelled and only the noise component remains.
3	PLAYBACK LEVEL	Alignment cassette (VHJ-0008)	PLAY (Colour bar)	TP1001 (VIDEO OUTPUT terminal)	SVR1002	 Adjust SVR1002 so that the level is 1.00 ±0.05 Vp-p.
4	CARRIER SET	None	E-E	TP1003	SVR1005	1. Set the input select switch to the EXT-IN position and put the VCR in the no-signal mode. 2. Adjust SVR1005 so that the frequency is 3.80 ±0.05 MHz.
5	DEVIATION	Colour bar from Colour bar generator	REC (Adjustment) ⬇ PLAY (Check)	TP1001	SVR1004	 1. Playback the recorded part, and check that the level is 1.00 ±0.05Vp-p. 2. If the level is not 1.00 ±0.05Vp-p, adjust SVR1004, record and playback it until the value is satisfied.

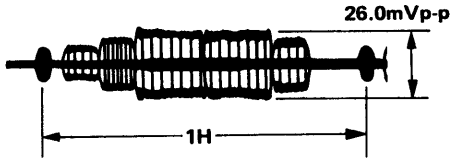
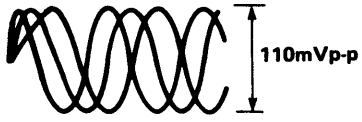
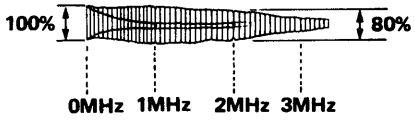
No.	Item	Input	Mode	Point	Location	Remark
6	DARK CLIP AND WHITE CLIP	Colour bar from Colour bar generator	E-E	TP1004	SVR1006 (DARK CLIP) SVR1007 (WHITE CLIP)	 1. Adjust SVR1006 so that the dark peak is 40^{+0}_{-5} %. 2. Adjust SVR1007 so that the white peak is 190 ±5%.

VIDEO CHROMINANCE SYSTEM ..... VD-1 Board

No.	Item	Input	Mode	Point	Location	Remark
1	VCR FREE OSCILLATION FREQUENCY	None	E-E	TP1006	SVR1009	1. Set the input select switch to the EXT-IN position and put the VCR in the no-signal mode. 2. Pull up 13 pin of IC1004 to 2.5V DC with a 1-kohm resistor. 3. Short circuit 15 pin of IC1003 and ground. 4. Adjust SVR1009 so that the frequency is 5.15 ±0.1MHz.
2	SECAM DETECTOR	Colour bar from SECAM Colour bar generator	E-E	TP1201	T1201	 Adjust T1201 so that the level is maximized.

NOTE: Adjustment No.2 is necessary for Model VHR-1100G, EE, EX only.

VIDEO PRE-AMP. SYSTEM ..... VP-1 Board

No.	Item	Input	Mode	Point	Location	Remark
1	CHRO-MINANCE SIGNAL RECORDING CURRENT	Colour bar from generator	REC	CN1503 (3) (HOT) CN1503 (1) (GND) See Fig. 4-1	SVR1010	 1. Turn SVR1001 all the way to the left, looking from the foil side. 2. Adjust SVR1010 so that the level is 26.0 ±2 mVp-p.
2	LUMINANCE SIGNAL RECORDING CURRENT	B/W signal from Colour bar generator	REC	CN1503 (3) (HOT) CN1503 (1) (GND)	SVR1001	 Adjust SVR1001 so that the level is 110 ±5 mVp-p.
3	PLAYBACK FREQUENCY CHARAC-TERISTIC	Alignment cassette (VHJ-0010)	PLAY (RF sweep)	TP1001 CN4008 (1) (trigger)	SVR1011	 1. Set the tracking control to the best point. 2. Set the picture VR to the center click position. 3. Adjust the 2 MHz amplitude to 80 % of the 0 MHz amplitude with SVR1011.

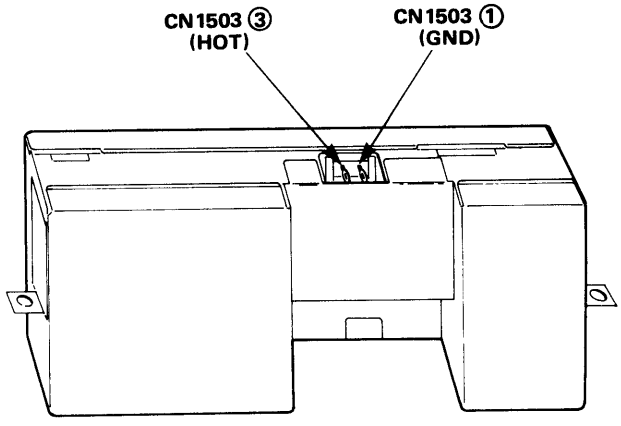


Fig. 4-1 VP-1 Board

AUDIO SYSTEM ..... VD-1 Board

No.	Item	Input	Mode	Point	Location	Remark
1	BIAS	None	REC	CN2002 (3) CN2002 (1) (GND)	SVR2001	1. Set the input select switch to the EXT-IN position and put the VCR in the no-signal mode. 2. Adjust SVR2001 so that the level is 26mVrms.
2	PLAYBACK OUTPUT LEVEL	Audio signal (1 KHz, −10 dBs) from Audio signal generator	REC ↓ PLAY	AUDIO OUTPUT terminal	SVR2002	Adjust SVR2002 so that the recorded 1 KHz output level becomes −8 dBs in the PLAY mode.

TUNER I.F. SYSTEM ..... TN-1 Board

No.	Item	Input	Mode	Point	Location	Remark
1	RF AGC	TV broadcast	E-E	TV screen	SVR6001	1. Set the AFT switch to ON position. 2. Turn SVR6001 all the way to the right, looking from the parts side. 3. While watching the TV screen, turn SVR6001 slowly to the left and adjust it to the point where S/N is best point.

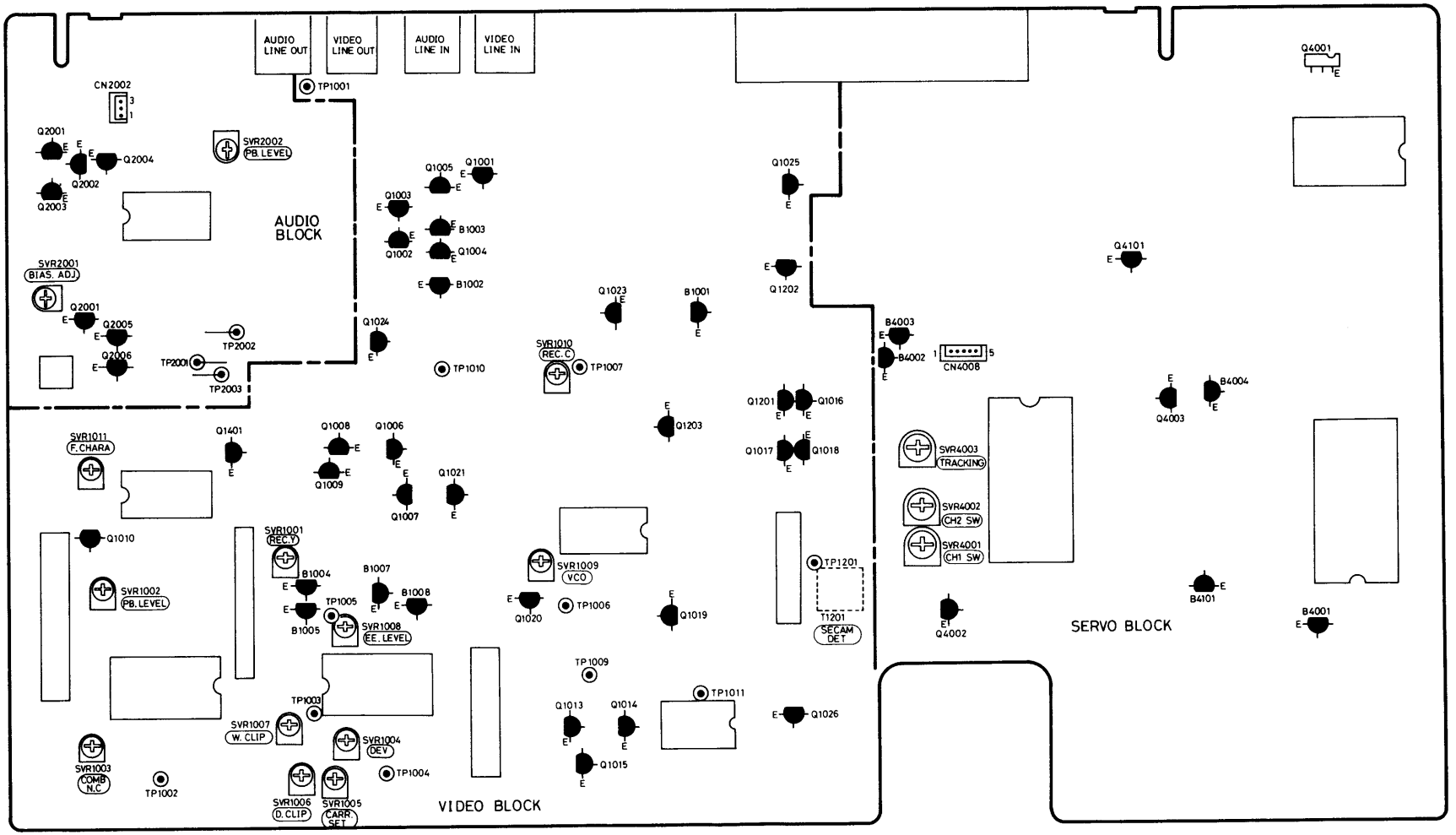


Fig. 4-2 VD-1 Board (Foil side view)

SANYO ELECTRIC TRADING CO., LTD.
33, Hiyoshi-cho 2-chome, Moriguchi-shi,
Osaka-fu, 570 Japan

DEC./'85/6,500 HA Printed in Japan

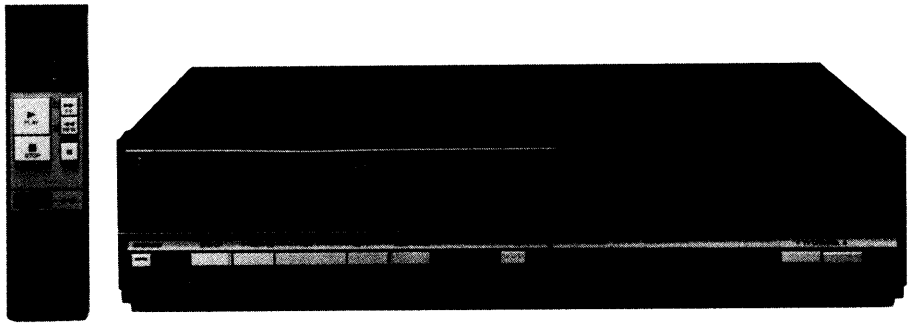
PARTS LIST & CIRCUIT DIAGRAMS

COLOUR VIDEO CASSETTE RECORDER

SANYO

VHR-1100E

VHS HQ
PAL



The indication "(JAPAN)" indicates a video cassette recorder manufactured in Japan; the indication "(U.K.)" indicates a video cassette recrder manufactured in England.
The country of manufacture is shown on the label on the rear panel of the unit.

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P1P/E
P1P/EKD

WM-16885

PRODUCT SAFETY NOTICE

The components designated by a symbol (⚠) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List. Do not deviate from the resistance, wattage and voltage ratings shown.

NOTE : Parts order must contain Model Number, Part Number and Description.

ACCESSORIES

Ref. No.	Part No.	Description
	143-6-411T-69800	OWNER'S MANUAL (JAPAN)
	4-243V-38700	ANTENNA OUTPUT CABLE (JAPAN)
	143-9-4100-62382	REMOTE CONTROL UNIT (JAPAN)

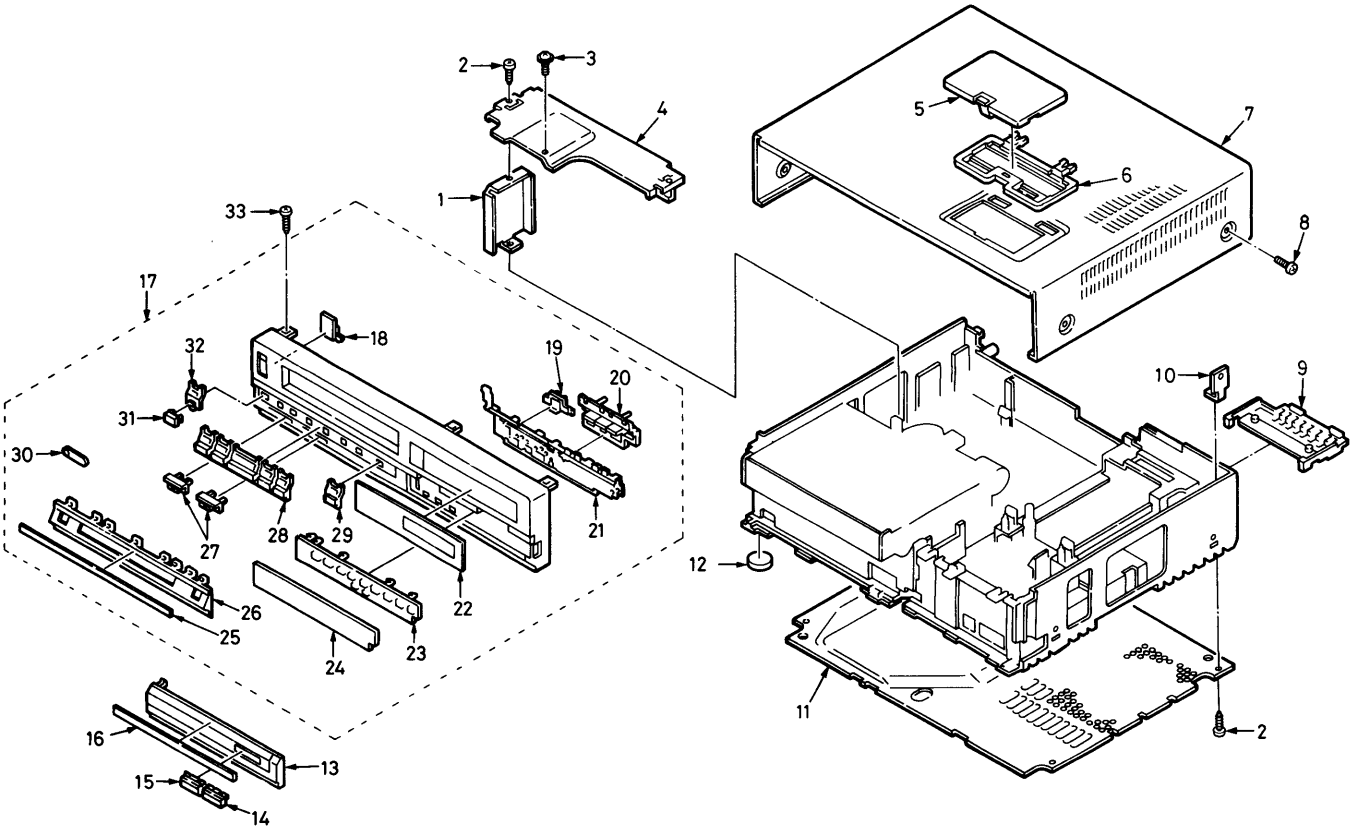
PACKING MATERIALS

Ref. No.	Part No.	Description
	143-6-132T-58726	INNER CARTON (JAPAN)
or	143-6-132T-58753	INNER CARTON (U.K.)
	143-6-251T-04000	INDIVIDUAL POLY. COVER
	143-6-144T-13400	CUSHION, FRONT
	143-6-144T-13500	CUSHION, REAR

CABINET PARTS

Ref. No.	Part No.	Description
1	143-2-310T-03600	BRACKET, SHIELD PLATE
2	BJB2S++3+8+Z1	S T BIND H 3X8Z1
3	BJBYS++3+4+Z1	S M BIND H 3X4Z1
4	143-2-322T-66300	PLATE, SHIELD
5	143-2-133T-12662	COVER, TUNING
6	143-2-124T-11210	BRACKET, COVER
7	143-2-111T-08712	COVER, TOP
8	143-2-421T-10401	SCREW, M4X10
9	143-2-133T-19400	COVER, HEAT SINK
10	143-2-351T-70000	BRACKET, CABINET
11	143-2-125T-07701	PLATE, BOTTOM
12	143-2-174T-02402	STAND, CHASSIS
13	143-2-133T-19304	COVER, TIMER
14	143-2-161T-55402	BUTTON, TV CHANNEL, UP
15	143-2-161T-54702	BUTTON, TV CHANNEL, DOWN
16	143-2-143T-60901	PLATE, TV CHANNEL
17	143-0-122T-23424	PANEL ASSEMBLY FRONT
18	143-2-161T-54101	BUTTON, EJECT
19	143-2-161T-54506	BUTTON, OBR

Ref. No.	Part No.	Description
20	143-2-161T-54602	BUTTON, CLOCK/COUNTER
21	143-2-322T-63200	PLATE, SHIELD
22	143-2-143T-57802	PLATE, DIGITAL DISPLAY
23	143-2-161T-58300	BUTTON, TIMER
24	143-2-143T-61210	PLATE, TIMER
25	143-2-143T-61001	PLATE, OPERATION
26	143-2-153T-16202	ESCUTCHEON, OPERATION
27	143-2-164T-10300	KNOB, TRACKING, PICTURE
28	143-2-161T-54302	BUTTON, OPERATION
29	143-2-161T-54401	BUTTON, REC
30	143-2-142T-05800	BADGE
31	143-2-161T-54202	BUTTON, ON/STAND BY
32	143-2-132T-08900	BRACKET, ON/STAND BY BUTTON
33	BJB2S++312+Z1	S T BIND H 3X12Z1



CHASSIS PARTS

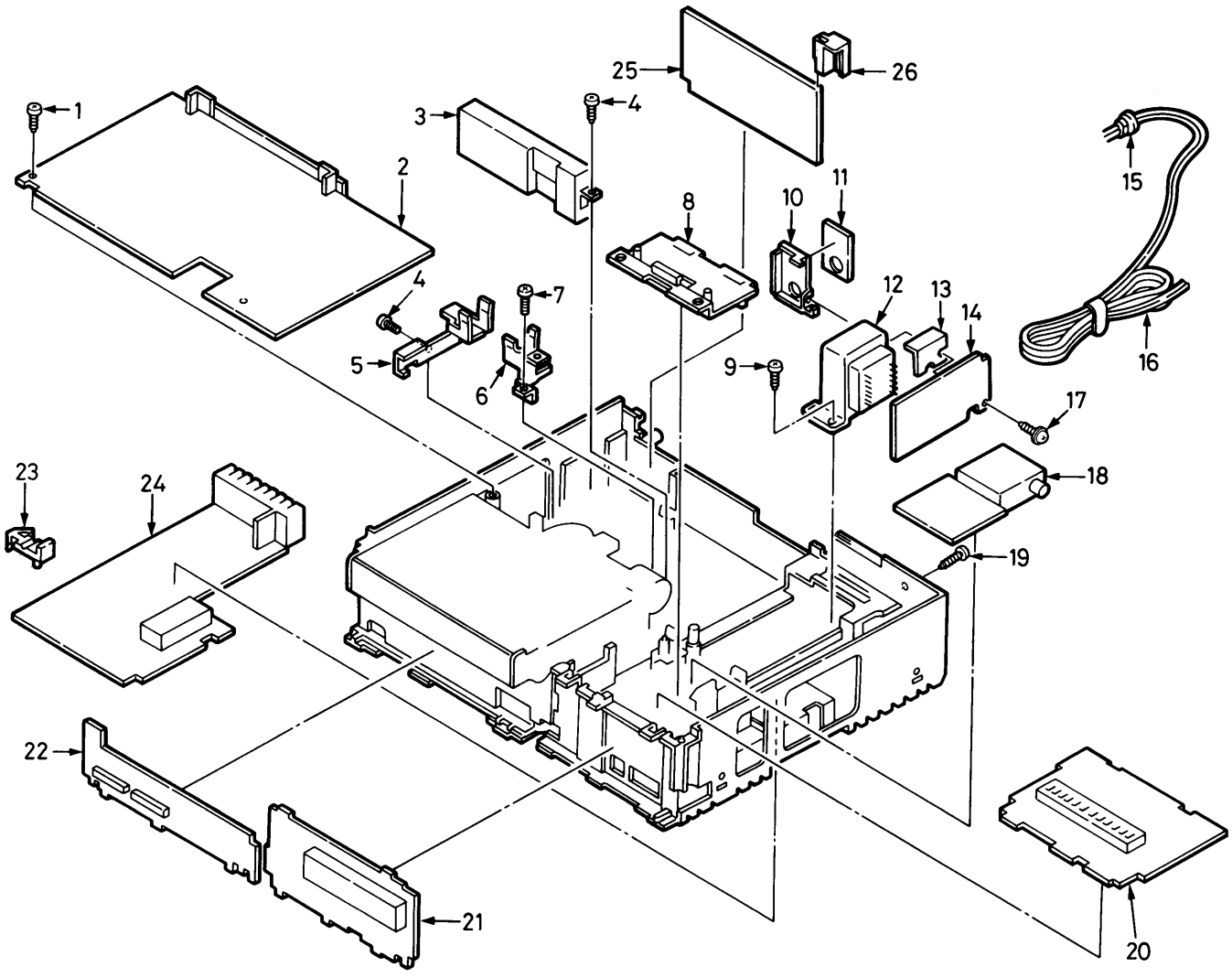
Ref. No.	Part No.	Description
1	BJB2S++312+ZR	S T BIND H 3X12ZR
2	143-0-230V-84330	VD-1 BOARD ASSEMBLY
3	143-0-230V-84400	VP-1 BOARD ASSEMBLY (JAPAN)
or	143-0-230V-84421	VP-1 BOARD ASSEMBLY (U.K.)
4	BJB2S++3+8+Z1	S T BIND H 3X8Z1
5	143-2-351T-73600	BRACKET, VP-1 BOARD, LEFT
6	143-2-351T-71800	BRACKET, VP-1 BOARD, RIGHT
7	BJBYS++3+4+Z1	S M BIND H 3X4Z1
8	143-2-359T-02100	BRACKET, TUNER ASSEMBLY
9	BJB2S++412+Z1	S T BIND H 4X12Z1
10	143-2-310T-04400	BRACKET, POWER TRANSFORMER
11	143-2-143T-58700	PLATE, BRACKET
12	⚠ 4-251V-53200	TRANSFORMER, POWER
13	143-2-327T-13200	INSULATOR, PW-1 BOARD
14	143-0-230V-85575	PW-1 BOARD ASSEMBLY (JAPAN)
or	143-0-230V-85576	PW-1 BOARD ASSEMBLY (U.K.)
15	143-2-464T-02700	FIXER, POWER CORD
16	⚠ 4-243V-12932	CORD, POWER

Ref. No.	Part No.	Description
17	BJX6S++3+8+Z1	S T WASHER H 3X8Z1
18	143-9-4300-67201	TUNER ASSEMBLY
or	143-9-4300-71700	TUNER ASSEMBLY
19	BJB2S++3+8+ZK	S T BIND H 3X8ZK
20	143-0-230V-96921	TN-2 BOARD ASSEMBLY
21	143-0-230V-97021	TN-3 BOARD ASSEMBLY
22	143-0-230V-88701	SY-2 BOARD ASSEMBLY (JAPAN)
or	143-0-230V-88721	SY-2 BOARD ASSEMBLY (U.K.)
23	143-2-251T-01400	HINGE, SY-1 BOARD
24	143-0-230V-92721	SY-1 BOARD ASSEMBLY (JAPAN)
or	143-0-230V-92723	SY-1 BOARD ASSEMBLY (U.K.)
25	143-0-233V-02000	VD-2 BOARD ASSEMBLY
or	143-0-233V-03600	VD-2 BOARD ASSEMBLY
26	143-2-377T-20300	BRACKET, VD-2 BOARD

CAUTION:

Never combine the VD-2 board assembly (143-0-233V-03600) with the unlabeled VD-1 board assembly or the VD-2 board assembly (143-0-233V-02000) with the labeled VD-1 board assembly, because to do so will result in IC damage.

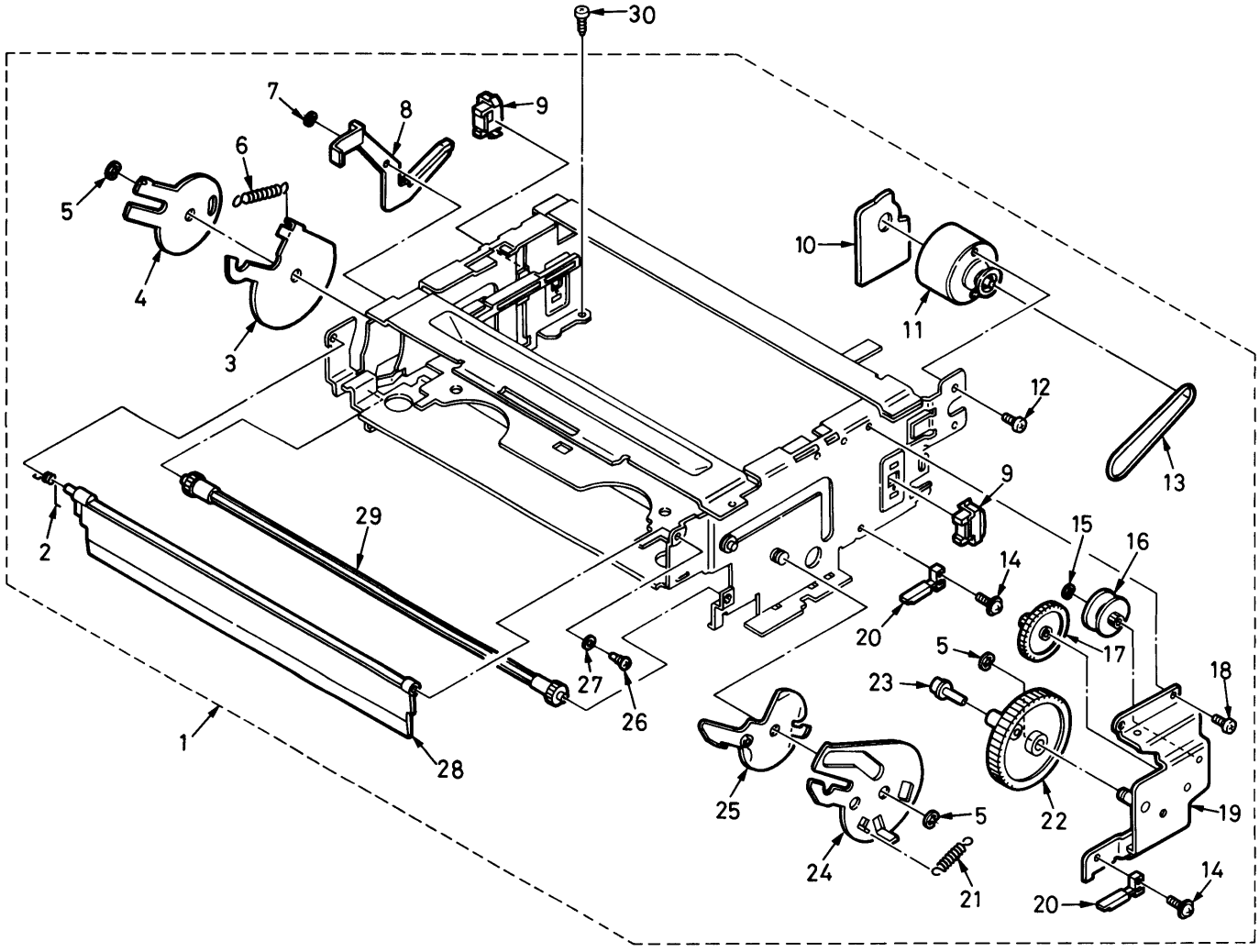
FOR VD-2
USE WITH
143-0-233V-03600
ONLY



MECHANISM PARTS(1)

Ref. No.	Part No.	Description
1	143-9-351T-73522	HOLDER ASSEMBLY, CASSETTE
2	143-2-851T-81900	SPRING, DOOR
3	143-9-741T-59600	LEVER, GEAR, LEFT
4	143-2-741T-59400	LEVER, SWING, LEFT
5	TJETU+++4++++	E-RING, M4
6	143-2-851T-82600	SPRING, LEVER, LEFT
7	TJETU+2R5++++	E-RING, M2.5
8	143-2-741T-59300	LEVER, OPENER
9	143-0-230V-84950	MC-31 BOARD ASSEMBLY
10	143-0-230V-84671	MC-32 BOARD ASSEMBLY
11	143-0-527V-02600	MOTOR, FRONT LOADING
12	BJNBS2R6+3+Z1	S M PAN H 2.6X3Z1
13	143-2-560T-00900	BELT, FRONT LOADING MOTOR
14	BJY1S++2+9+Z1	S M PAN W/SPR W, WASH 2X9Z1
15	TJETU+1R5++++	E-RING, M1.5
16	143-2-661T-69800	PULLEY, PINION
17	143-2-581T-10900	GEAR, REDUCTION

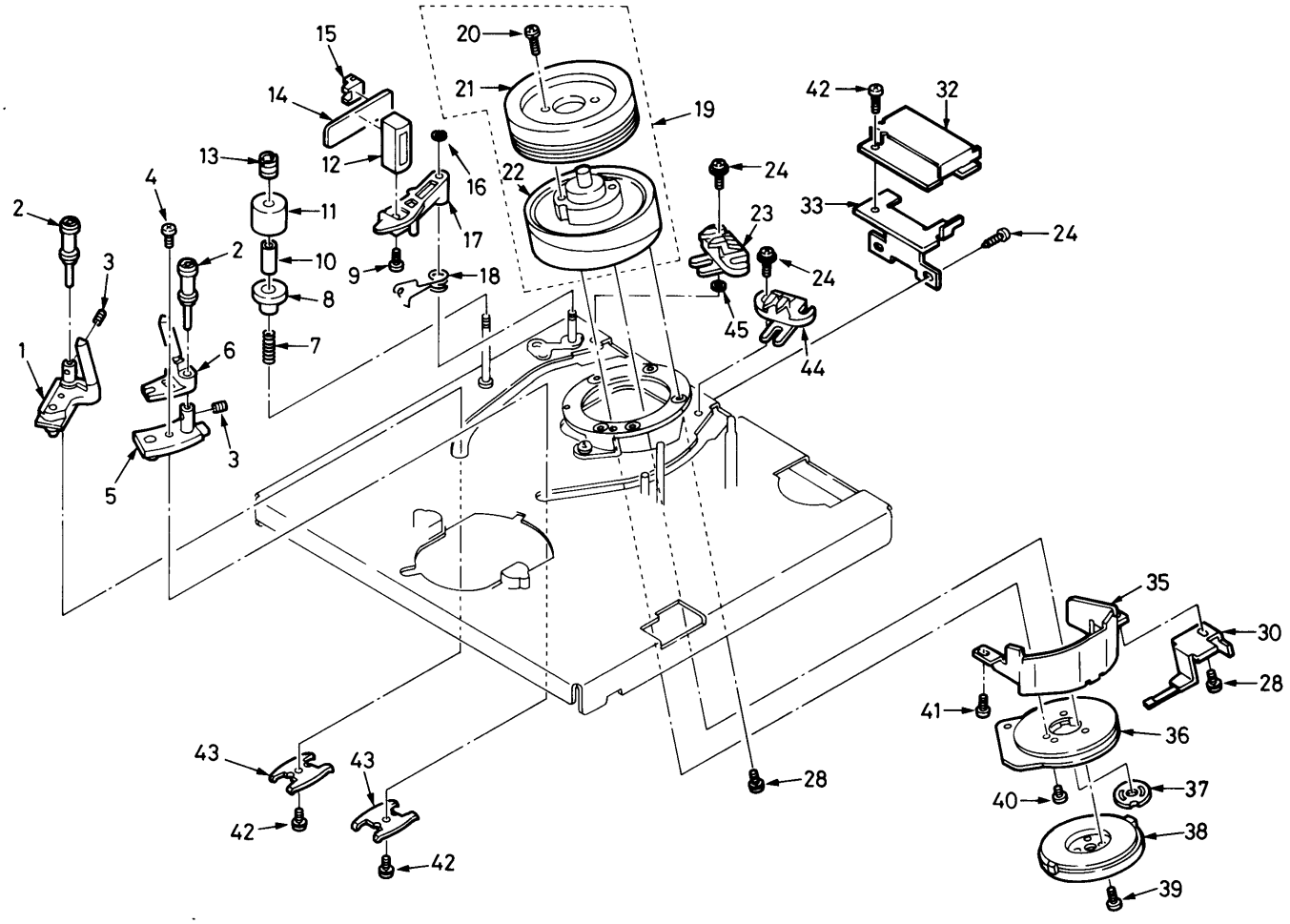
Ref. No.	Part No.	Description
18	BJSTS++3+6+Z1	S M PAN H 3X6Z1
19	143-0-351T-71600	BRACKET, FRONT LOADING MOTOR
20	4-231V-83500	SWITCH, START/END
21	143-2-851T-82700	SPRING, LEVER, RIGHT
22	143-2-581T-12800	GEAR, SWING
23	143-2-662T-15300	ROLLER, SWING
24	143-2-741T-59700	LEVER, GEAR, RIGHT
25	143-2-741T-59500	LEVER, SWING, RIGHT
26	143-2-421T-11000	SCREW, CASSETTE DOOR
27	WJKWS++3R0DZ1	WASHER, M3X6X0.63
28	143-2-133T-20300	DOOR, CASSETTE
29	143-9-751T-88800	SHAFT, FRONT LOADING
30	143-2-421T-11800	SCREW, M3X6



MECHANISM PARTS(2)

Ref. No.	Part No.	Description
1	143-0-822T-02100	GUIDE, LEADING, LEFT (JAPAN)
or	143-0-822T-02500	GUIDE, LEADING, LEFT (U.K.)
2	143-0-821T-13200	GUIDE, TAPE
3	BJAMS++2+3MCP	S M H LESS HEX SOCKET 2X3CP
4	BJX3S++3+6+Z1	S M PAN W/SPR, FLANGE 3X6Z1
5	143-0-822T-02200	GUIDE, LEADING, RIGHT, LOWER (JAPAN)
6	143-0-822T-02000	GUIDE, LEADING, RIGHT, UPPER (JAPAN)
or	143-0-822T-02400	GUIDE, LEADING, RIGHT (U.K.)
7	143-2-851T-78900	SPRING, IMPEDANCE ROLLER
8	143-2-457T-13400	WASHER, IMPEDANCE ROLLER
9	BJNBS++2+4+Z1	S M PAN H 2X4Z1
10	143-2-681T-17500	SLEEVE, IMPEDANCE ROLLER
11	143-2-662T-15400	ROLLER, IMPEDANCE
12	4-242V-24700	HEAD, ERASE
13	143-2-421T-03400	NUT, M3
14	4-230V-91800	BOARD, MC-23
15	4-235V-38502	SOCKET, 2PIN, HORIZONTAL, WHITE
16	TJETU+++3++++	E-RING, M3
17	143-2-741T-57500	LEVER, ERASE HEAD
18	143-2-851T-79400	SPRING, ERASE HEAD LEVER
19	143-0-771T-05921	DRUM ASSEMBLY
20	BJX1S++3+8+Z1	S M PAN W/FLANGE WAS 3X8Z1

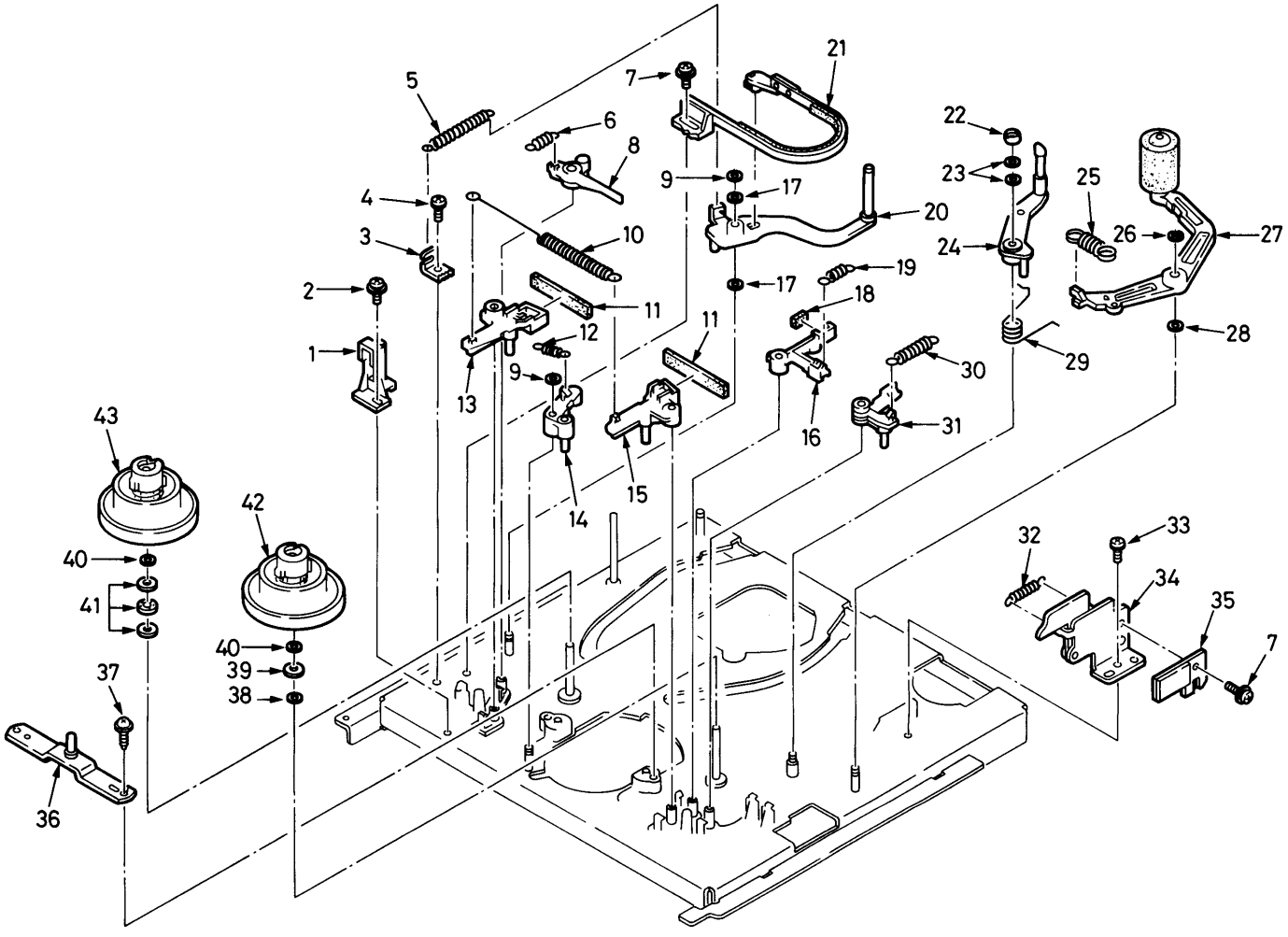
Ref. No.	Part No.	Description
21	143-0-771T-05124	DRUM, UPPER
22	143-0-771T-04522	DRUM, LOWER
23	143-0-820T-00102	CATCHER, POLE, LEFT (JAPAN)
or	143-0-820T-00200	CATCHER, POLE, LEFT (U.K.)
24	BJX3S++3+8+Z1	S M PAN W/SPR, FLANGE 3X8Z1
28	BJX2S++3+6+Z1	S M PAN W/SPRING WAS 3X6Z1
30	143-0-324T-00901	PLATE, GROUNDING
32	143-0-230V-88101	MC-30 BOARD ASSEMBLY
33	143-2-377T-20100	BRACKET, MC-30 BOARD
35	143-2-322T-61600	PLATE, SHIELD
36	4-264V-16801	STATOR, DRUM
37	143-2-352T-21900	SPACER
38	143-2-774T-02603	ROTOR, DRUM
39	BJNBS2R3+4+Z1	S M PAN H 2.3X4Z1
40	BJNBS2R312+Z1	S M PAN H 2.3X12Z1
41	BJNBS++3+3+Z1	S M PAN H 3X3Z1
42	BJX2S++3+4+Z1	S M PAN W/SPRING WAS 3X4Z1
43	143-2-822T-02300	BRACKET, TAPE GUIDE
44	143-0-820T-00103	CATCHER, POLE, RIGHT (JAPAN)
or	143-0-820T-00200	CATCHER, POLE, RIGHT (U.K.)
45	141-2-457T-10301	WASHER, M3.2X5.75X0.2



MECHANISM PARTS(3)

Ref. No.	Part No.	Description
1	4-231V-86300	SWITCH, ERASE PREVENTION
2	BJX3S2R6+6+Z1	S M PAN W/SPR, FLANGE 2.6X6Z1
3	143-2-858T-03500	BRACKET, BACK TENSION SPRING
4	BJX2S++3+5+Z1	S M PAN W/SPRING WAS 3X5Z1
5	143-2-851T-78701	SPRING, BACK TENSION
6	143-2-851T-79800	SPRING, SUPPLY SOFT BRAKE
7	BJY1S++3+6+Z1	S M PAN W/SPR W, WASH 3X6Z1
8	143-0-741T-57300	LEVER, SUPPLY SOFT BRAKE
9	143-2-457T-12200	WASHER, M2.4X6X0.4
10	143-2-851T-79700	SPRING, REEL BRAKE
11	143-2-712T-04300	BRAKE SHOE, REEL BRAKE LEVER
12	143-2-851T-79600	SPRING, IDLER STOPPER
13	143-0-741T-57000	LEVER, SUPPLY REEL BRAKE
14	143-0-741T-57900	LEVER, IDLER STOPPER
15	143-0-741T-56900	LEVER, TAKE-UP REEL BRAKE
16	143-2-741T-57100	LEVER, TAKE-UP SOFT BRAKE
17	141-2-453T-30302	WASHER, M3X5.4X0.5
18	143-2-712T-04400	BRAKE SHOE, TAKE-UP SOFT BRAKE LEVER
19	143-2-851T-79100	SPRING, TAKE-UP SOFT BRAKE
20	143-0-741T-57400	LEVER, BACK TENSION
21	143-0-711T-02000	BAND, BRAKE
22	143-2-421T-11700	NUT, M2.6
23	143-2-457T-13300	WASHER, M2.6X6X0.25
24	143-0-741T-56800	LEVER, REWIND GUIDE
25	143-2-851T-80100	SPRING, PINCH ROLLER

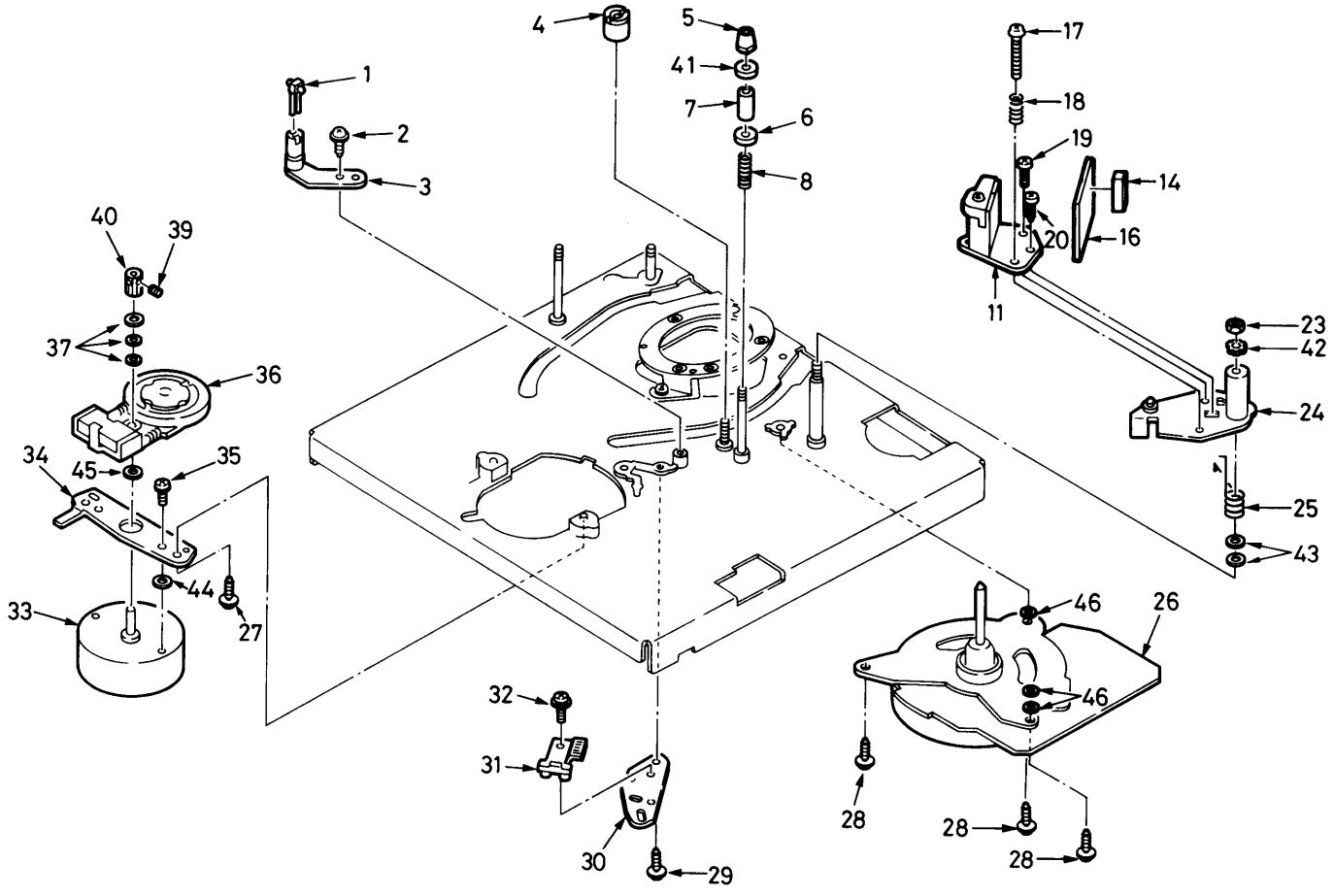
Ref. No.	Part No.	Description
26	TJETU+++3++++	E-RING, M3
27	143-0-545T-02520	ROLLER, PINCH
28	141-2-453T-30502	WASHER, M4.1X6.5X0.5
29	143-2-851T-78100	SPRING, REWIND GUIDE LEVER
30	143-2-851T-79200	SPRING, TAKE-UP SOFT BRAKE
31	143-0-741T-57200	LEVER, REWIND SOFT BRAKE
32	143-2-851T-80200	SPRING, CASSETTE OPENER
33	BJX2S2R6+4+Z1	S M PAN W/SPRING WAS 2.6X4Z1
34	143-0-741T-58300	LEVER, CASSETTE OPENER
35	4-221V-17320	SENSOR, DEW
36	143-0-351T-68700	BRACKET, CASSETTE LOCK
37	BJXWS2R6+8+Z1	S T WASHER H 2.6X8Z1
38	143-2-453T-00400	WASHER, M3.1X6X0.5
39	143-2-352T-21100	SPACER, TAKE-UP REEL PLATE
40	143-2-453T-00400	WASHER, M3.1X6X0.5
or	143-2-453T-00401	WASHER, M3.1X6X0.25
or	143-2-453T-00402	WASHER, M3.1X6X0.13
or	143-2-453T-00403	WASHER, M3.1X6X0.2
41	143-2-574T-02800	BEARING
42	143-0-531T-05121	REEL PLATE, TAKE-UP
43	143-0-531T-05100	REEL PLATE, SUPPLY



MECHANISM PARTS(4)

Ref. No.	Part No.	Description
1	SLLN59+++++NO	SENSOR, TAPE END, LN59
2	BJXWS2R6+8+Z1	S T WASHER H 2.6X8Z1
3	143-0-210T-04400	BRACKET, TAPE END SENSOR
4	143-2-421T-10200	NUT, M4
5	143-2-421T-12000	NUT, M3
6	143-2-457T-07800	WASHER, M3X8X2.3
7	143-2-821T-13100	GUIDE, TAPE
8	143-2-851T-79300	SPRING, TAPE GUIDE
11	143-0-242V-24600	HEAD, AUDIO/CONTROL
14	4-235V-38006	SOCKET, 6PIN, VERTICAL, WHITE
16	4-230V-88800	BOARD, MC-21
17	BJNBS++320+Z1	S M PAN H 3X20Z1
18	143-2-851T-79500	SPRING, AUDIO/CONTROL HEAD
19	BJNBS++310+Z1	S M PAN H 3X10Z1
20	143-2-421T-10300	SCREW, M3X8
23	NJR2S++4+++Z1	NUT, M4
24	143-0-375T-09100	BRACKET, AUDIO/CONTROL HEAD
25	143-2-851T-79000	SPRING, AUDIO/CONTROL HEAD
26	4-527V-53100	MOTOR, CAPSTAN
27	BJXWS++3+8+Z1	S T WASHER H 3X8Z1
28	BJXWS++310+Z1	S T WASHER H 3X10Z1

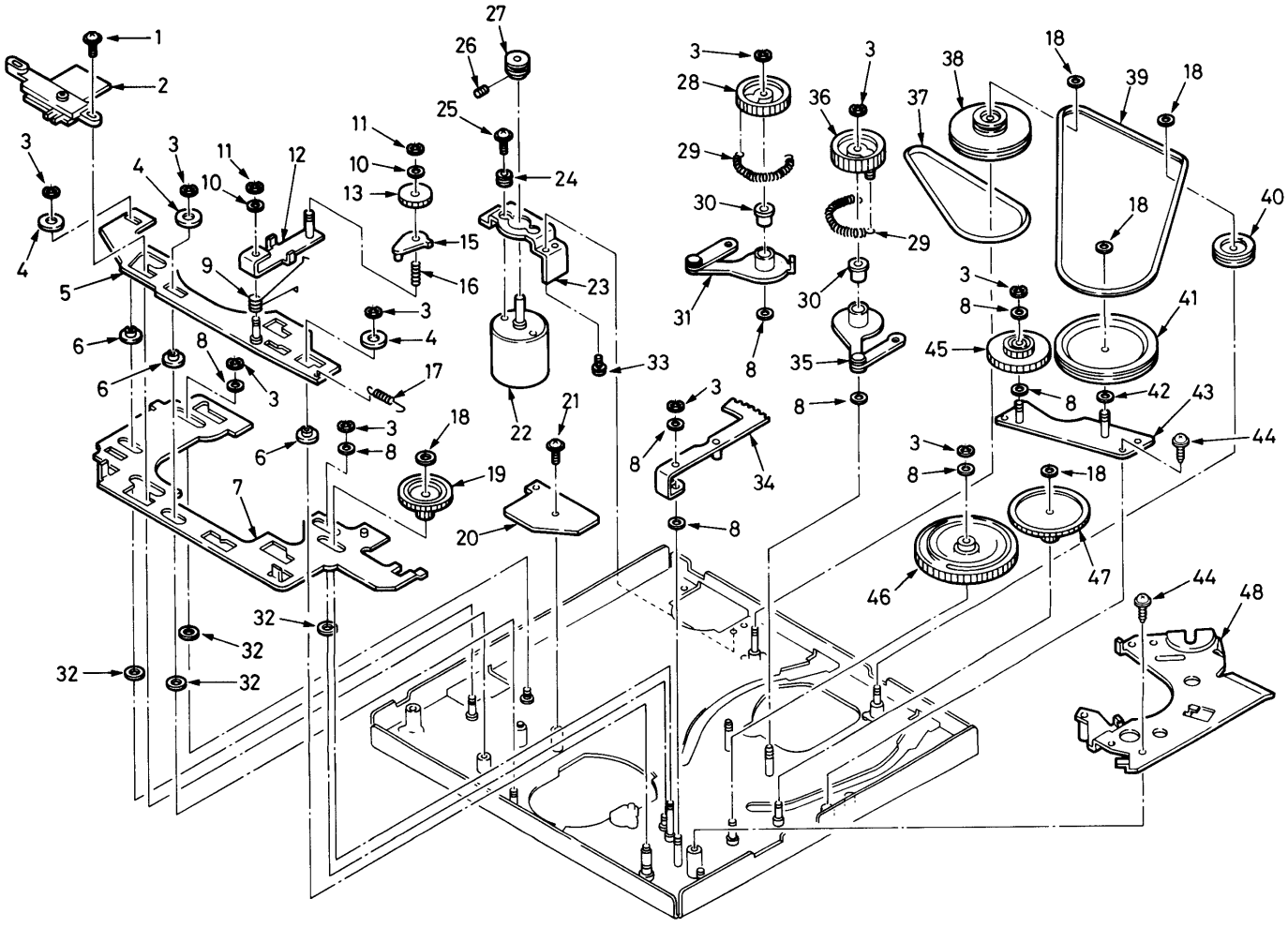
Ref. No.	Part No.	Description
29	BJXWS2R6+6+Z1	S T WASHER H 2.6X6Z1
30	143-2-351T-69800	BRACKET, REEL SENSOR
31	4-202V-15000	SENSOR, REEL
32	BJX3S2R6+6+Z1	S M PAN W/SPR, FLANGE 2.6X6Z1
33	4-527V-02400	MOTOR, REEL
34	143-2-378T-02600	BRACKET, REEL MOTOR
35	BJX2S2R6+4+Z1	S M PAN W/SPRING WAS 2.6X4Z1
36	143-0-662T-14730	ROLLER, REEL DRIVE
37	141-2-453T-30300	WASHER, M3X5.4X0.13
39	BJAMS++2+3MCP	S M H LESS HEX SOCKET 2X3CP
40	143-2-661T-72100	PULLEY, REEL MOTOR
41	143-2-457T-15300	WASHER, TAPE GUIDE
42	WJHGS++4W0CZ1	WASHER, M4
43	WJBWS++5D08Z1	WASHER, M5
44	WJBWS++3Y08Z1	WASHER, M3
45	143-2-457T-12900	WASHER, M3.2X8X0.13
46	143-2-352T-05800	WASHER, M4.1X9.3X0.2



MECHANISM PARTS(5)

Ref. No.	Part No.	Description
1	BJXWS2R612+Z1	S T WASHER H 2.6X12Z1
2	4-231V-86200	SWITCH, MODE SELECT
3	TJETU+++3++++	E-RING, M3
4	143-2-457T-12600	WASHER, M4.2X12X0.5
5	143-0-731T-14400	SLIDE, UPPER
6	143-2-681T-17400	ROLLER, SLIDE
7	143-0-731T-14200	SLIDE, LOWER
8	143-2-457T-13600	WASHER, M4.2X7.8X0.25
9	143-2-851T-83200	SPRING, INSTANT BRAKE LEVER
10	143-2-457T-13500	WASHER, M3.2X7X0.25
11	TJETU+2R3++++	E-RING, M2.3
12	143-0-741T-57700	LEVER, INSTANT BRAKE
13	143-0-581T-11800	GEAR, SLIP
15	143-2-741T-57800	LEVER, SLIP GEAR
16	143-2-851T-78300	SPRING, SLIP GEAR
17	143-2-851T-78400	SPRING, SLIDE RETURN
18	143-2-457T-12200	WASHER, M2.4X6X0.4
19	143-2-581T-11900	GEAR, CENTER, INSTANT BRAKE
20	143-0-230V-76450	HN-2 BOARD ASSEMBLY
21	BJXWS2R6+8+Z1	S T WASHER H 2.6X8Z1
22	4-527V-02700	MOTOR, LOADING
23	143-2-378T-02700	BRACKET, LOADING MOTOR
24	141-2-445T-29100	CUSHION, RUBBER
25	141-2-421T-41200	SCREW, LOADING MOTOR
26	BJAMS2R6+3MCP	S M H LESS HEX SOCKET 2.6X3CP
27	143-2-661T-72000	PULLEY, LOADING MOTOR

Ref. No.	Part No.	Description
28	143-0-581T-11300	GEAR, PRESSURE LEVER, RIGHT
29	143-2-851T-78200	SPRING, PRESSURE LEVER
30	143-2-681T-16800	SLEEVE, PRESSURE LEVER
31	143-0-741T-58101	LEVER, PRESSURE, RIGHT
32	141-2-453T-30501	WASHER, M4.1X6.5X0.25
33	BJY3S2R6+8+Z1	S M WASHER H 2.6X8Z1
34	143-0-581T-11700	GEAR, LEVER
35	143-0-741T-58001	LEVER, PRESSURE, LEFT
36	143-0-581T-11400	GEAR, PRESSURE LEVER, LEFT
37	143-2-564T-04200	BELT, SMALL
38	143-2-661T-71800	PULLEY, TWO STEPS
39	143-2-564T-04300	BELT, LARGE
40	143-2-661T-71700	PULLEY, SMALL
41	143-2-661T-71900	PULLEY, LARGE
42	141-2-453T-30301	WASHER, M3X5.4X0.25
43	143-0-351T-68600	BRACKET, PULLEY SUPPORT
44	BJXWS2R6+6+Z1	S T WASHER H 2.6X6Z1
45	143-2-581T-11600	GEAR, TWO STEPS
46	143-2-671T-02500	CAM, DRIVE
47	143-2-581T-11500	GEAR, TWO STEPS
48	143-0-465T-12300	STOPPER, INSTANT BRAKE LEVER



ELECTRICAL PARTS

NOTE:

* Materials of Capacitors are abbreviated as follows;

Elect., ...Electrolytic Capacitor
NP. Elect., ...Non-Polarized Electrolytic Capacitor
Mylar .....Mylar Film Capacitor
Polypro .....Polypropylene Capacitor
M. Polypro .....Metallized Polypropylene Capacitor
EDL.....Electric Double Layer Capacitor

* Tolerance of Capacitor, Resistors and Other parts are noted with follow symboles;

A.....+75−10%
F .....±1%
G .....±2%
J .....±5%
K.....±10%
M .....±20%
N.....±30%
P.....+100−0%
Z.....+80−20%

VD-1 BOARD (VIDEO)
NO.143-0-230V-84330

Location	Part No.	Description
		(MISCELLANEOUS)
	143-2-143T-57921	PLATE, JACKS
	143-9-4300-70600	CONVERTER, RF
	4-235V-42403	JACK, VIDEO IN/OUT
	4-235V-42402	JACK, AUDIO IN/OUT
	4-231V-20600	SWITCH, TUNER/EXT IN
DL1001	4-284V-18300	DELAY LINE
or	4-284V-18350	DELAY LINE
DL1002	4-284V-18400	DELAY LINE
or	4-284V-18450	DELAY LINE
F1001	4-228V-18200	LC PACK
F1002	4-228V-18100	LC PACK
F1003	4-228V-18300	LC PACK
X1001	4-225V-23400	CRYSTAL, 4.43M HZ
		(VARIABLE RESISTORS)
SVR1001	4-222V-68908	2.2K OHM
or	4-222V-69004	2K OHM
or	4-222V-69104	2K OHM
SVR1002	4-222V-68916	47K OHM
or	4-222V-69010	50K OHM
or	4-222V-69110	50K OHM
SVR1003	4-222V-68908	2.2K OHM
or	4-222V-69004	2K OHM
or	4-222V-69104	2K OHM
SVR1004	4-222V-68912	10K OHM
or	4-222V-69007	10K OHM
or	4-222V-69107	10K OHM
SVR1005	4-222V-68912	10K OHM
or	4-222V-69007	10K OHM
or	4-222V-69107	10K OHM
SVR1006	4-222V-68916	47K OHM
or	4-222V-69010	50K OHM
or	4-222V-69110	50K OHM
SVR1007	4-222V-68916	47K OHM
or	4-222V-69010	50K OHM
or	4-222V-69110	50K OHM
SVR1008	4-222V-68916	47K OHM
or	4-222V-69010	50K OHM
or	4-222V-69110	50K OHM
SVR1009	4-222V-68916	47K OHM
or	4-222V-69010	50K OHM
or	4-222V-69110	50K OHM
SVR1010	4-222V-68906	1K OHM
or	4-222V-69003	1K OHM
or	4-222V-69103	1K OHM
SVR1011	4-222V-68902	220 OHM
or	4-222V-69000	200 OHM
or	4-222V-69100	200 OHM
		(COILS)
L1001	4-253V-97125	HF CHOKE 100UH
L1002	4-253V-97003	HF CHOKE 15UH
L1003	4-253V-97125	HF CHOKE 100UH

Location	Part No.	Description
L1004	4-253V-97125	HF CHOKE 100UH
L1005	4-253V-97015	HF CHOKE 150UH
L1006	4-253V-97012	HF CHOKE 82UH
L1007	4-253V-97125	HF CHOKE 100UH
L1008	4-253V-97111	HF CHOKE 6.8UH
L1009	4-253V-97003	HF CHOKE 15UH
L1010	4-253V-97003	HF CHOKE 15UH
L1011	4-253V-97014	HF CHOKE 120UH
L1013	4-253V-97125	HF CHOKE 100UH
L1014	4-253V-97125	HF CHOKE 100UH
L1015	4-253V-97003	HF CHOKE 15UH
L1016	4-253V-97006	HF CHOKE 27UH
L1018	4-253V-97005	HF CHOKE 22UH
L1019	4-253V-97125	HF CHOKE 100UH
L1020	4-253V-97009	HF CHOKE 47UH
L1021	4-253V-97019	HF CHOKE 330UH
L1022	4-253V-97023	HF CHOKE 680UH
L1023	4-253V-97023	HF CHOKE 680UH
L1026	4-253V-97125	HF CHOKE 100UH
		(INTEGRATED CIRCUITS)
IC1001	SIAN3320K++++	IC AN3320K
IC1002	SIAN3215K++++	IC AN3215K
IC1003	SIBU2763S++++	IC BU2763S
IC1004	SIBA7267S++++	IC BA7267S
IC1401	SIHD14046BP++	IC HD14046BP
or	SIMC14046BCP+	IC MC14046BCP
		(TRANSISTORS)
Q1001	STA608+F++++B	TR 2SA608 F SP
Q1002	STB598+F++++T	TR 2SB598 F
or	STB598+G++++T	TR 2SB598 G
Q1003	SRA1345+++++T	TR MD 2SA1345
or	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
Q1004	STB598+F++++T	TR 2SB598 F
or	STB598+G++++T	TR 2SB598 G
Q1005	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
Q1006	STA608+F++++B	TR 2SA608 F SP
Q1007	STC536+F++++B	TR 2SC536 F SP
Q1008	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1009	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1010	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y

Location	Part No.	Description
Q1010	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1013	STA1309Q++++T	TR 2SA1309 Q
or	STA1309R++++T	TR 2SA1309 R
or	STA608+E++++B	TR 2SA608 E SP
or	STA608+F++++B	TR 2SA608 F SP
Q1014	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
Q1015	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
Q1016	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1017	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1018	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1019	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1020	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
Q1021	STA1309Q++++T	TR 2SA1309 Q
or	STA1309R++++T	TR 2SA1309 R
or	STA608+E++++B	TR 2SA608 E SP
or	STA608+F++++B	TR 2SA608 F SP
Q1023	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1024	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
Q1025	STC3070+++++L	TR 2SC3070
Q1026	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
Q1030	STC2839E++++T	TR 2SC2839 E
Q1401	STA1309Q++++T	TR 2SA1309 Q
or	STA1309R++++T	TR 2SA1309 R
or	STA608+E++++B	TR 2SA608 E SP
or	STA608+F++++B	TR 2SA608 F SP
		(DIODES)
D1001	SD1SS133++++T	DIODE 1SS133
D1002	SD1SS133++++T	DIODE 1SS133
D1003	SD1SS133++++T	DIODE 1SS133
D1005	SD1SS133++++T	DIODE 1SS133
D1006	SD1SS133++++T	DIODE 1SS133
D1007	SD1SS133++++T	DIODE 1SS133
D1008	SD1SS133++++T	DIODE 1SS133
D1009	SD1SS133++++T	DIODE 1SS133
D1010	SD1SS133++++T	DIODE 1SS133
D1011	SD1SS133++++T	DIODE 1SS133
D1012	SDGZA020X+++T	ZENER GZA2.0X
D1013	SD1SS133++++T	DIODE 1SS133
D1014	SD1SS133++++T	DIODE 1SS133
D1015	SDGZA056Y+++T	ZENER DIODE GZA5.6Y

Location	Part No.	Description
		(COMPOSITE)
B1001	SRC3400+++++T	TR MD 2SC3400
or	SRRN1203++++T	TR MD RN1203
B1002	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
B1003	SRRN2204++++T	TR MD RN2204
B1004	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
B1005	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
B1007	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
B1008	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
		(CAPACITORS)
C1001	CE6R3108MVHAS	ELECT 1000MF 6.3V M V HA
C1002	CE6R3476MRHAL	ELECT 47MF 6.3V M R HA
C1003	CB+25104KRXRL	BC CON 0.1MF 25V K R XR
C1004	CC+50151JAYBG	CERAMIC 150PF 50V J A YB G
C1005	CC+50680JASLG	CERAMIC 68PF 50V J A SL G
C1006	CE6R3107MRHAL	ELECT 100MF 6.3V M R HA
C1007	CE+16106MRHAL	ELECT 10MF 16V M R HA
C1008	CE6R3476MRHAL	ELECT 47MF 6.3V M R HA
C1009	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1010	CE+10226MRHAL	ELECT 22MF 10V M R HA
C1011	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1012	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1013	CE+10476MRHAL	ELECT 47MF 10V M R HA
C1014	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1015	CE+10476MRAKL	ELECT 47MF 10V M R AK
C1016	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1017	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1018	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1019	CC+50120JASLG	CERAMIC 12PF 50V J A SL G
C1020	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1021	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1022	CC+50181JAYBG	CERAMIC 180PF 50V J A YB G
C1023	CC+50820JAYBG	CERAMIC 82PF 50V J A YB G
C1024	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1025	CC+50181JAYBG	CERAMIC 180PF 50V J A YB G
C1026	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1027	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1028	CC+50390JASLG	CERAMIC 39PF 50V J A SL G
C1029	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1030	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1031	CC+50120JASLG	CERAMIC 12PF 50V J A SL G
C1032	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1033	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1034	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1035	CB+25223KRXRL	BC CON 0.022MF 25V K R
C1036	CE+50105MRHAL	ELECT 1MF 50V M R HA
C1037	CE+16106MRHAL	ELECT 10MF 16V M R HA
C1038	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1039	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1040	CE+50105MRHAL	ELECT 1MF 50V M R HA
C1041	CE+16106MRHAL	ELECT 10MF 16V M R HA
C1042	CC+50561JAYBG	CERAMIC 560PF 50V J A YB G
C1043	CC+50151JAYBG	CERAMIC 150PF 50V J A YB G
C1044	CC+50221JRSLL	CERAMIC 220PF 50V J R
C1045	CC+50680JASLG	CERAMIC 68PF 50V J A SL G
C1046	CC+50821JAYBG	CERAMIC 820PF 50V J A YB G
C1047	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1048	CB+25102JRXRL	BC CON 0.001MF 25V J R
C1049	CC+50561JAYBG	CERAMIC 560PF 50V J A YB G
C1050	CC+50471JAYBG	CERAMIC 470PF 50V J A YB G
C1051	CE+50105MRAKL	ELECT 1MF 50V M R AK
C1052	CB+25473KDXRS	BC CON 0.047MF 25V K
C1053	CE6R3107MRAKL	ELECT 100MF 6.3V M R AK
C1054	CC+50750JRSLL	CERAMIC 75PF 50V J R S
C1056	CC+50391JAYBG	CERAMIC 390PF 50V J A YB G
C1057	CB+25473KDXRS	BC CON 0.047MF 25V K
C1058	CC+50390JRCHL	CERAMIC 39PF 50V J R CH

Location	Part No.	Description
C1059	CE+50105MRAKL	ELECT 1MF 50V M R AK
C1060	CC+50680JASLG	CERAMIC 68PF 50V J A SL G
C1061	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1062	CE+25335MRAKL	ELECT 3.3MF 25V M R AK
C1063	CE+50225MRAKL	ELECT 2.2MF 50V M R AK
C1064	CE+25475MRAKL	ELECT 4.7MF 25V M R AK
C1065	CE+50225MRAKL	ELECT 2.2MF 50V M R AK
C1066	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1067	CC+50471JAYBG	CERAMIC 470PF 50V J A YB G
C1068	CE6R3476MRHAL	ELECT 47MF 6.3V M R HA
C1069	CB+25104KRXRL	BC CON 0.1MF 25V K R XR
C1070	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1071	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1073	CE+16106MRHAL	ELECT 10MF 16V M R HA
C1074	CE6R3476MRHAL	ELECT 47MF 6.3V M R HA
C1075	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1076	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1077	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1078	CM+50223KC++L	MYLAR 0.022MF 50V K C
C1079	CF+50334JM++S	THIN FILM 0.33MF 50V J
C1080	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1081	CC+50270JASLG	CERAMIC 27PF 50V J A SL G
C1083	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1084	CE+50104MRHAL	ELECT 0.1MF 50V M
C1085	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1086	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1087	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1088	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1089	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1090	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1091	CB+16472MAXRG	BC CON 0.0047MF 16V M AXRG
C1092	CC+50470JASLG	CERAMIC 47PF 50V J A SL G
C1093	CC+50102JAYBG	CERAMIC 0.001MF 50V J AYBG
C1094	CC+50821JAYBG	CERAMIC 820PF 50V J A YB G
C1095	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1096	CE6R3107MRHAL	ELECT 100MF 6.3V M R HA
C1097	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1098	CC+505R6DACHG	CERAMIC 5.6PF 50V D A CH G
C1099	CE6R3476MRHAL	ELECT 47MF 6.3V M R HA
C1100	CE+50105MRHAL	ELECT 1MF 50V M R HA
C1101	CC+50102JAYBG	CERAMIC 0.001MF 50V J AYBG
C1102	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1103	CC+50820JRSLL	CERAMIC 82PF 50V J R S
C1104	CC+50471JRSLL	CERAMIC 470PF 50V J R SL
C1105	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1106	CF+50154JM++S	THIN FILM 0.15MF 50V J
C1107	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1108	CE6R3476MRAKL	ELECT 47MF 6.3V M R AK
C1110	CE+16106MRAKL	ELECT 10MF 16V M R AK
C1111	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1112	CE+10477MRHAL	ELECT 470MF 10V M R HA
C1114	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1115	CC+50471JAYBG	CERAMIC 470PF 50V J A YB G
C1116	CE6R3476MRHAL	ELECT 47MF 6.3V M R HA
C1117	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1118	CE6R3476MRHAL	ELECT 47MF 6.3V M R HA
C1119	CE6R3107MRHAL	ELECT 100MF 6.3V M R HA
C1120	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1121	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1123	CC+50680JASLG	CERAMIC 68PF 50V J A SL G
C1124	CC+50820JRSLL	CERAMIC 82PF 50V J R S
C1125	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1127	CE+16226MVAKS	ELECT 22MF 16V M V AK
C1401	CE+16106MRHAL	ELECT 10MF 16V M R HA
C1402	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1403	CE6R3476MRHAL	ELECT 47MF 6.3V M R HA
C1404	CM+50102KC++L	MYLAR 0.001MF 50V K C
C1405	CC+50102JAYBG	CERAMIC 0.001MF 50V J AYBG
C1406	CC+50471JAYBG	CERAMIC 470PF 50V J A YB G
C1407	CC+50471JAYBG	CERAMIC 470PF 50V J A YB G
		(RESISTORS)
R1001	RC⁄+6750JT+++	CARBON T 75 OHM J 1/6

Location	Part No.	Description
R1002	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6
R1003	RC⁄+6750JT+++	CARBON T 75 OHM J 1/6
R1004	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6
R1005	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6
R1006	RC⁄+6121JT+++	CARBON T 120 OHM J 1/6
R1007	RC⁄+6751JT+++	CARBON T 750 OHM J 1/6
R1008	RC⁄+6183JT+++	CARBON T 18K OHM J 1/6
R1009	RC⁄+6682JT+++	CARBON T 6.8K OHM J 1/6
R1010	RC⁄+6472JT+++	CARBON T 4.7K OHM J 1/6
R1011	RC⁄+6272JT+++	CARBON T 2.7K OHM J 1/6
R1012	RC⁄+6182JT+++	CARBON T 1.8K OHM J 1/6
R1013	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R1014	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6
R1015	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6
R1016	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6
R1017	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6
R1018	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6
R1019	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6
R1020	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R1021	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R1022	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6
R1023	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6
R1025	RC⁄+6270JT+++	CARBON T 27 OHM J 1/6
R1026	RC⁄+6270JT+++	CARBON T 27 OHM J 1/6
R1027	RC⁄+6152JT+++	CARBON T 1.5K OHM J 1/6
R1028	RC⁄+6302JT+++	CARBON T 3K OHM J 1/6
R1029	RC⁄+6302JT+++	CARBON T 3K OHM J 1/6
R1030	RC⁄+6152JT+++	CARBON T 1.5K OHM J 1/6
R1031	RC⁄+64R7JT+++	CARBON T 4.7 OHM J 1/6
R1032	RC⁄+6153JT+++	CARBON T 15K OHM J 1/6
R1033	RC⁄+6511JT+++	CARBON T 510 OHM J 1/6
R1034	RC⁄+6202JT+++	CARBON T 2K OHM J 1/6
R1035	RC⁄+6751JT+++	CARBON T 750 OHM J 1/6
R1036	RC⁄+6820JT+++	CARBON T 82 OHM J 1/6
R1037	RC⁄+6472JT+++	CARBON T 4.7K OHM J 1/6
R1038	RC⁄+6132JT+++	CARBON T 1.3K OHM J 1/6
R1039	RC⁄+6271JT+++	CARBON T 270 OHM J 1/6
R1040	RC⁄+6163JT+++	CARBON T 16K OHM J 1/6
R1041	RC⁄+6301JT+++	CARBON T 300 OHM J 1/6
R1042	RC⁄+4221JT++R	CARBON T 220 OHM J 1/4
R1043	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6
R1044	RC⁄+6681JT+++	CARBON T 680 OHM J 1/6
R1045	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6
R1046	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R1047	RC⁄+6152JT+++	CARBON T 1.5K OHM J 1/6
R1048	RC⁄+6182JT+++	CARBON T 1.8K OHM J 1/6
R1049	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6
R1050	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6
R1051	RC⁄+6122JT+++	CARBON T 1.2K OHM J 1/6
R1052	RC⁄+6122JT+++	CARBON T 1.2K OHM J 1/6
R1053	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6
R1054	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R1055	RC⁄+6182JT+++	CARBON T 1.8K OHM J 1/6
R1056	RC⁄+6471JT+++	CARBON T 470 OHM J 1/6
R1057	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6
R1058	RC⁄+6151JT+++	CARBON T 150 OHM J 1/6
R1059	RC⁄+6181JT+++	CARBON T 180 OHM J 1/6
R1060	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R1061	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6
R1062	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6
R1063	RC⁄+6182JT+++	CARBON T 1.8K OHM J 1/6
R1064	RC⁄+6152JT+++	CARBON T 1.5K OHM J 1/6
R1065	RC⁄+6152JT+++	CARBON T 1.5K OHM J 1/6
R1066	RC⁄+6271JT+++	CARBON T 270 OHM J 1/6
R1067	RC⁄+6682JT+++	CARBON T 6.8K OHM J 1/6
R1068	RC⁄+6132JT+++	CARBON T 1.3K OHM J 1/6
R1069	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6
R1070	RC⁄+6821JT+++	CARBON T 820 OHM J 1/6
R1071	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6
R1072	RC⁄+6332JT+++	CARBON T 3.3K OHM J 1/6
R1073	RC⁄+6332JT+++	CARBON T 3.3K OHM J 1/6
R1074	RC⁄+6133JT+++	CARBON T 13K OHM J 1/6
R1075	RC⁄+6752JT+++	CARBON T 7.5K OHM J 1/6

Location	Part No.	Description
R1076	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6
R1077	RC/+6682JT+++	CARBON T 6.8K OHM J 1/6
R1078	RC/+6153JT+++	CARBON T 15K OHM J 1/6
R1079	RC/+6153JT+++	CARBON T 15K OHM J 1/6
R1080	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R1084	RC/+6221JT+++	CARBON T 220 OHM J 1/6
R1085	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6
R1086	RC/+6474JT+++	CARBON T 470K OHM J 1/6
R1087	RC/+6394JT+++	CARBON T 390K OHM J 1/6
R1088	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1089	RC/+6822JT+++	CARBON T 8.2K OHM J 1/6
R1090	RC/+6393JT+++	CARBON T 39K OHM J 1/6
R1091	RC/+6124JT+++	CARBON T 120K OHM J 1/6
R1092	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R1093	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R1094	RC/+6123JT+++	CARBON T 12K OHM J 1/6
R1095	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R1096	RC/+6203JT+++	CARBON T 20K OHM J 1/6
R1097	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1098	RC/+6272JT+++	CARBON T 2.7K OHM J 1/6
R1099	RC/+6681JT+++	CARBON T 680 OHM J 1/6
R1101	RC/+6273JT+++	CARBON T 27K OHM J 1/6
R1102	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6
R1103	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6
R1104	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R1105	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R1106	RC/+6470JT+++	CARBON T 47 OHM J 1/6
R1107	RC/+6471JT+++	CARBON T 470 OHM J 1/6
R1108	RC/+6221JT+++	CARBON T 220 OHM J 1/6
R1109	RC/+6333JT+++	CARBON T 33K OHM J 1/6
R1110	RC/+6393JT+++	CARBON T 39K OHM J 1/6
R1111	RC/+6122JT+++	CARBON T 1.2K OHM J 1/6
R1112	RC/+6271JT+++	CARBON T 270 OHM J 1/6
R1113	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1114	RC/+6822JT+++	CARBON T 8.2K OHM J 1/6
R1115	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6
R1116	RC/+6105JT+++	CARBON T 1M OHM J 1/6
R1117	RC/+6682JT+++	CARBON T 6.8K OHM J 1/6
R1118	RC/+6471JT+++	CARBON T 470 OHM J 1/6
R1119	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1120	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1121	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1122	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1123	RC/+6303JT+++	CARBON T 30K OHM J 1/6
R1124	RC/+6822JT+++	CARBON T 8.2K OHM J 1/6
R1125	RC/+6390JT+++	CARBON T 39 OHM J 1/6
R1126	RC/+6121JT+++	CARBON T 120 OHM J 1/6
R1127	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1128	RC/+6183JT+++	CARBON T 18K OHM J 1/6
R1130	RC/+6333JT+++	CARBON T 33K OHM J 1/6
R1131	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R1132	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R1133	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1134	RC/+6822JT+++	CARBON T 8.2K OHM J 1/6
R1135	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6
R1136	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R1137	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6
R1138	RC/+6391JT+++	CARBON T 390 OHM J 1/6
R1139	RC/+6201JT+++	CARBON T 200 OHM J 1/6
R1140	RC/+6621JT+++	CARBON T 620 OHM J 1/6
R1141	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6
R1144	RC/+6182JT+++	CARBON T 1.8K OHM J 1/6
R1145	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R1146	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R1147	RC/+6122JT+++	CARBON T 1.2K OHM J 1/6
R1149	RC/+6103JP+++	CARBON P 10K OHM J 1/6
R1401	RC/+6183JT+++	CARBON T 18K OHM J 1/6
R1402	RC/+6123JT+++	CARBON T 12K OHM J 1/6
R1403	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R1404	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R1405	RC/+6183JT+++	CARBON T 18K OHM J 1/6
R1406	RC/+6474JT+++	CARBON T 470K OHM J 1/6
R1407	RC/+6124JT+++	CARBON T 120K OHM J 1/6
R1408	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R1409	RC/+6224JT+++	CARBON T 220K OHM J 1/6
R1410	RC/+6470JT+++	CARBON T 47 OHM J 1/6

VD-1 BOARD (AUDIO)
NO.143-0-230V-84330

Location	Part No.	Description
		(VARIABLE RESISTORS)
SVR2001	4-222V-68920	220K OHM
or	4-222V-69012	200K OHM
or	4-222V-69112	200K OHM
SVR2002	4-222V-68912	10K OHM
or	4-222V-69007	10K OHM
or	4-222V-69107	10K OHM
		(COILS)
L2001	4-253V-96901	HF CHOKE 7MH
L2002	4-253V-95801	HF CHOKE 27MH
L2003	4-253V-84111	HF CHOKE 560UH
		(COIL TRANSFORMERS)
T2001	4-258V-18240	OSC COIL
		(INTEGRATED CIRCUITS)
IC2001	SILA7090+++++	IC LA7090
		(TRANSISTORS)
Q2001	STC3495++++T	TR 2SC3495
or	STD1011R++++T	TR 2SD1011 R
or	STD1011S++++T	TR 2SD1011 S
or	STD1011T++++T	TR 2SD1011 T
Q2002	STC3495+++++T	TR 2SC3495
or	STD1011R++++T	TR 2SD1011 R
or	STD1011S++++T	TR 2SD1011 S
or	STD1011T++++T	TR 2SD1011 T
Q2003	STA1016F++++T	TR 2SA1016 F
or	STA1016G++++T	TR 2SA1016 G
Q2004	STC945+P+++AT	TR 2SC945A P
or	STC945+Q+++AT	TR 2SC945A Q
Q2005	STC536+F++++T	TR 2SC536 F
or	STC536+G++++T	TR 2SC536 G
Q2006	STC536+F++++T	TR 2SC536 F
or	STC536+G++++T	TR 2SC536 G
		(DIODES)
D2001	SD1SS133++++T	DIODE 1SS133
		(COMPOSITE)
B2001	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
		(CAPACITORS)
C2001	CE+16106MRHAL	ELECT 10MF 16V M R HA
C2003	CE+50475MRHAL	ELECT 4.7MF 50V M R HA
C2004	CB+25223KRXRL	BC CON 0.022MF 25V K R
C2005	CE+16106MRHAL	ELECT 10MF 16V M R HA
C2007	CE+16106MRHAL	ELECT 10MF 16V M R HA
C2008	CE+10476MRHAL	ELECT 47MF 10V M R HA
C2009	CE+10226MRHAL	ELECT 22MF 10V M R HA
C2010	CE+10476MRHAL	ELECT 47MF 10V M R HA
C2011	CE+16106MRHAL	ELECT 10MF 16V M R HA
C2013	CE+10476MRHAL	ELECT 47MF 10V M R HA
C2014	CE+10476MRHAL	ELECT 47MF 10V M R HA
C2015	CE+16106MRHAL	ELECT 10MF 16V M R HA
C2016	CC+50681KAYBG	CERAMIC 680PF 50V K A YB G
C2017	CE+50334MRHAL	ELECT 0.33MF 50V M

Location	Part No.	Description
C2018	CB+25183KRXRL	BC CON 0.018MF 25V K R XR
C2019	CB+16392KAXRG	BC CON 0.0039MF 16V K AXRG
C2020	CB+16332KAXRG	BC CON 0.0033MF 16V K AXRG
C2021	CE+10476MRHAL	ELECT 47MF 10V M R HA
C2022	CC+50221KAYBG	CERAMIC 220PF 50V K A YB G
C2023	CN100273JM++S	POLYPRO 0.027MF 100V J
C2024	CE+10107MRHAL	ELECT 100MF 10V M R HA
C2025	CB+25223KRXRL	BC CON 0.022MF 25V K R
C2026	CB+16332KAXRG	BC CON 0.0033MF 16V K AXRG
C2027	CB+16472KAXRG	BC CON 0.0047MF 16V K AXRG
C2028	CB+16332KAXRG	BC CON 0.0033MF 16V K AXRG
		(RESISTORS)
R2001	RC/+6183JT+++	CARBON T 18K OHM J 1/6
R2002	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6
R2003	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R2005	RC/+6272JT+++	CARBON T 2.7K OHM J 1/6
R2006	RC/+6512JT+++	CARBON T 5.1K OHM J 1/6
R2007	RC/+6822JT+++	CARBON T 8.2K OHM J 1/6
R2008	RC/+6225JT+++	CARBON T 2.2M OHM J 1/6
R2009	RC/+6333JT+++	CARBON T 33K OHM J 1/6
R2010	RC/+6163JT+++	CARBON T 16K OHM J 1/6
R2011	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R2012	RC/+6101JT+++	CARBON T 100 OHM J 1/6
R2013	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6
R2014	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6
R2015	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R2016	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R2017	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6
R2018	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R2019	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R2022	RC/+6682JT+++	CARBON T 6.8K OHM J 1/6
R2023	RC/+6151JT+++	CARBON T 150 OHM J 1/6
R2024	RC/+6184JT+++	CARBON T 180K OHM J 1/6
R2025	RC/+6622JT+++	CARBON T 6.2K OHM J 1/6
R2026	RC/+6272JT+++	CARBON T 2.7K OHM J 1/6
R2027	RC/+6752JT+++	CARBON T 7.5K OHM J 1/6
R2028	RC/+6473JT+++	CARBON T 47K OHM J 1/6
R2029	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R2030	RC/+6242JT+++	CARBON T 2.4K OHM J 1/6
R2031	RM/+4100JFRF+	FUSIBLE F 10 OHM J 1/4
R2032	RC/+6183JT+++	CARBON T 18K OHM J 1/6
R2033	RC/+6183JT+++	CARBON T 18K OHM J 1/6

VD-1 BOARD (SERVO)
NO.143-0-230V-84330

Location	Part No.	Description
		(VARIABLE RESISTORS)
SVR4001	4-222V-68920	220K OHM
or	4-222V-69012	200K OHM
or	4-222V-69112	200K OHM
SVR4002	4-222V-68920	220K OHM
or	4-222V-69012	200K OHM
or	4-222V-69112	200K OHM
SVR4003	4-222V-68920	220K OHM
or	4-222V-69012	200K OHM
or	4-222V-69112	200K OHM
		(INTEGRATED CIRCUITS)
IC4001	SILC741109+++	IC LC7411-09
IC4002	SILA7113+++++	IC LA7113
IC4003	SILB1620+++++	IC LB1620
IC4151	SIBAL6309++++	IC BAL6309
		(TRANSISTORS)
Q4001	STC2021Q+++++	TR 2SC2021 Q

Location	Part No.	Description
Q4001	STC2021R+++++	TR 2SC2021 R
Q4002	STC2603F++++T	TR 2SC2603 F
or	STC945+P+++AT	TR 2SC945A P
Q4003	STD1010R+++++	TR 2SD1010 R
or	STD1010S+++++	TR 2SD1010 S
Q4101	STC2603F++++T	TR 2SC2603 F
or	STC945+P+++AT	TR 2SC945A P
		(DIODES)
D4001	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D4002	SDGZA056Y++++	ZENER DIODE GZA5.6Y
D4004	SDDS442+++++T	DIODE DS442
or	SD1S2473++++T	DIODE 1S2473
D4007	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D4010	SDDS135+D++++	DIODE DS135 D
		(COMPOSITE)
B4001	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
B4002	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
B4003	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
B4004	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
B4101	SRC3399+++++T	TR MD 2SC3399
or	SRRN1204++++T	TR MD RN1204
		(CAPACITORS)
C4001	CC+50221KAYBG	CERAMIC 220PF 50V K A YB G
C4002	CT+16106KKD+S	TANTALUM 10MF 16V K K D
C4003	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C4004	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C4005	CT+16106KKD+S	TANTALUM 10MF 16V K K D
C4007	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C4008	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C4009	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C4012	CB+25104MRXRL	BC CON 0.1MF 25V M R X
C4013	CE+16476MRHAL	ELECT 47MF 16V M R HA
C4014	CE+50105MRHAL	ELECT 1MF 50V M R HA
C4015	CM+50103KC++L	MYLAR 0.01MF 50V K C
C4016	CF+50224JM++S	THIN FILM 0.22MF 50V J
C4017	CF+50394JM++S	THIN FILM 0.39MF 50V J
C4018	CM+50223KC++L	MYLAR 0.022MF 50V K C
C4019	CM+50223KC++L	MYLAR 0.022MF 50V K C
C4020	CB+25683MRXRL	BC CON 0.068MF 25V M R XR
C4021	CE+50105MRAKL	ELECT 1MF 50V M R AK
C4022	CE+16106MRAKL	ELECT 10MF 16V M R AK
C4023	CE+50105MRHAL	ELECT 1MF 50V M R HA
C4024	CB+16103MA+YG	BC CON 0.1MF 16V M A Y G
C4025	CE+16476MRHAL	ELECT 47MF 16V M R HA
C4026	CB+25104MRXRL	BC CON 0.1MF 25V M R X
C4029	CM+50333KC++L	MYLAR 0.033MF 50V K C
C4030	CM+50223KC++L	MYLAR 0.022MF 50V K C
C4031	CM+50104KC++L	MYLAR 0.1MF 50V K C
C4032	CE+50105MRHAL	ELECT 1MF 50V M R HA
C4033	CE+16106MRHAL	ELECT 10MF 16V M R HA
C4034	CC+50102KAYBG	CERAMIC 0.001MF 50V K AYBG
C4035	CE+16226MRHAL	ELECT 22MF 16V M R HA
C4036	CE6R3107MRHAL	ELECT 100MF 6.3V M R HA
C4037	CE+16336MRHAL	ELECT 33MF 16V M R HA
C4038	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C4039	CB+25104MRXRL	BC CON 0.1MF 25V M R X
C4040	CE+16107MRHAL	ELECT 100MF 16V M R HA
C4041	CE+25474MRHAL	ELECT 0.47MF 25V M R HA
C4042	CE+25474MRHAL	ELECT 0.47MF 25V M R HA
C4043	CE+25474MRHAL	ELECT 0.47MF 25V M R HA
C4044	CB+25473KRXRL	BC CON 0.047MF 25V K R
C4045	CB+25473KRXRL	BC CON 0.047MF 25V K R
C4046	CB+25473KRXRL	BC CON 0.047MF 25V K R
C4049	CM+50104KC++L	MYLAR 0.1MF 50V K C

Location	Part No.	Description
C4050	CM+50103KC++L	MYLAR 0.01MF 50V K C
C4051	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C4052	CE+50105MRHAL	ELECT 1MF 50V M R HA
C4055	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C4056	CF+50224JM++S	THIN FILM 0.22MF 50V J
C4101	CB+25473KRXRL	BC CON 0.047MF 25V K R
C4102	CE+50105MRHAL	ELECT 1MF 50V M R HA
C4103	CB+25473KRXRL	BC CON 0.047MF 25V K R
C4151	CM+50332JC++L	MYLAR 0.0033MF 50V J C
C4152	CM+50332JC++L	MYLAR 0.0033MF 50V J C
C4302	CB+25104MRXRL	BC CON 0.1MF 25V M R X
C4303	CE+16476MRHAL	ELECT 47MF 16V M R HA
		(RESISTORS)
R4001	RC/+6333JT+++	CARBON T 33K OHM J 1/6
R4002	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4003	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4004	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4005	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R4007	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4009	RC/+6334JT+++	CARBON T 330K OHM J 1/6
R4010	RC/+4334JT++R	CARBON T 330K OHM J 1/4
R4011	RC/+4474JT++R	CARBON T 470K OHM J 1/4
R4013	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R4014	RC/+6334JT+++	CARBON T 330K OHM J 1/6
R4016	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R4017	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R4018	RC/+6684JT+++	CARBON T 680K OHM J 1/6
R4019	RC/+6273JT+++	CARBON T 27K OHM J 1/6
R4020	RC/+6224JT+++	CARBON T 220K OHM J 1/6
R4021	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R4022	RC/+4101JT++R	CARBON T 100 OHM J 1/4
R4023	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4024	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R4027	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R4028	RC/+6183JT+++	CARBON T 18K OHM J 1/6
R4029	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6
R4030	RC/+6221JT+++	CARBON T 220 OHM J 1/6
R4031	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6
R4032	RC/+6333JT+++	CARBON T 33K OHM J 1/6
R4033	RC/+6333JT+++	CARBON T 33K OHM J 1/6
R4034	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R4035	RC/+6333JT+++	CARBON T 33K OHM J 1/6
R4036	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4038	RC/+6820JT+++	CARBON T 82 OHM J 1/6
R4040	RC/+6681JT+++	CARBON T 680 OHM J 1/6
R4041	RC/+6471JT+++	CARBON T 470 OHM J 1/6
R4042	RC/+6334JT+++	CARBON T 330K OHM J 1/6
R4043	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6
R4044	RC/+6392JT+++	CARBON T 3.9K OHM J 1/6
R4045	RC/+6224JT+++	CARBON T 220K OHM J 1/6
R4046	RC/+6334JT+++	CARBON T 330K OHM J 1/6
R4047	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4048	RC/+6184JT+++	CARBON T 180K OHM J 1/6
R4049	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4050	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4051	RM/+4472FTKE+	METAL T 4.7K OHM F 1/4
R4052	RM/+4472FTKE+	METAL T 4.7K OHM F 1/4
R4053	RC/+6184JT+++	CARBON T 180K OHM J 1/6
R4054	RC/+6474JT+++	CARBON T 470K OHM J 1/6
R4056	RC/+4103JT++R	CARBON T 10K OHM J 1/4
R4058	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R4059	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4060	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4061	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4062	RC/+6224JT+++	CARBON T 220K OHM J 1/6
R4066	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6
R4067	RM++1010JP+++	METAL P 1 OHM J 1W
R4069	RC/+6331JT+++	CARBON T 330 OHM J 1/6
R4070	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R4071	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R4072	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6

Location	Part No.	Description
R4073	RC/+6221JT+++	CARBON T 220 OHM J 1/6
R4074	RC/+4103JT++R	CARBON T 10K OHM J 1/4
R4075	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R4076	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R4077	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R4101	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R4102	RC/+6153JT+++	CARBON T 15K OHM J 1/6
R4103	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4104	RC/+6471JT+++	CARBON T 470 OHM J 1/6
R4105	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R4106	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R4151	RC/+6563JT+++	CARBON T 56K OHM J 1/6
R4152	RC/+6184JT+++	CARBON T 180K OHM J 1/6
R4153	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4154	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4155	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4156	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R4160	RC/+6183JT+++	CARBON T 18K OHM J 1/6

VD-2 BOARD (VIDEO)
NO.143-0-233V-02000

Location	Part No.	Description
		(COILS)
L1351	4-253V-74426	HF CHOKE 33UH
or	4-253V-97007	HF CHOKE 33UH
		(INTEGRATED CIRCUITS)
IC1351	SILA7072+++++	IC LA7072
		(TRANSISTORS)
Q1351	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC2458O+++++	TR 2SC2458 O
or	STC2458Y+++++	TR 2SC2458 Y
or	STC536+D++++B	TR 2SC536 D SP
or	STC536+E++++B	TR 2SC536 E SP
Q1352	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC2458O+++++	TR 2SC2458 O
or	STC2458Y+++++	TR 2SC2458 Y
or	STC536+D++++B	TR 2SC536 D SP
or	STC536+E++++B	TR 2SC536 E SP
Q1353	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC2458O+++++	TR 2SC2458 O
or	STC2458Y+++++	TR 2SC2458 Y
or	STC536+D++++B	TR 2SC536 D SP
or	STC536+E++++B	TR 2SC536 E SP
		(DIODES)
D1351	SD1SS133+++++	DIODE 1SS133
D1352	SD1SS133+++++	DIODE 1SS133
		(CAPACITORS)
C1351	CE6R3476MRHAL	ELECT 47MF 6.3V M
C1352	CB+16103MA+YG	BC CON 0.01MF 16V M
C1353	CB+16103MA+YG	BC CON 0.01MF 16V M
C1354	CB+16103MA+YG	BC CON 0.01MF 16V M
C1355	CE6R3107MRHAL	ELECT 100MF 6.3V M
C1356	CC+50820JAYBG	CERAMIC 82PF 50V J
C1357	CB+16103MA+YG	BC CON 0.01MF 16V M
C1358	CE+50105MRHAL	ELECT 1MF 50V M
C1359	CB+16103MA+YG	BC CON 0.01MF 16V M
C1360	CB+16103MA+YG	BC CON 0.01MF 16V M
C1361	CE6R3476MRHAL	ELECT 47MF 6.3V M
C1362	CE6R3107MRHAL	ELECT 100MF 6.3V M
C1363	CB+16103MA+YG	BC CON 0.01MF 16V M

Location	Part No.	Description
C1364	CB+16103MA+YG	BC CON 0.01MF 16V M
C1365	CC+50560JASLG	CERAMIC 56PF 50V J
		(RESISTORS)
R1351	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R1352	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R1353	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R1354	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6
R1355	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R1356	RC⁄+6472JT+++	CARBON T 4.7K OHM J 1/6
R1357	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R1358	RC⁄+6621JT+++	CARBON T 620 OHM J 1/6
R1359	RC⁄+6181JT+++	CARBON T 180 OHM J 1/6
R1360	RC⁄+6392JT+++	CARBON T 3.9K OHM J 1/6
R1361	RC⁄+6331JT+++	CARBON T 330 OHM J 1/6
R1362	RC⁄+6182JT+++	CARBON T 1.8K OHM J 1/6
R1363	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6
R1364	RC⁄+6563JT+++	CARBON T 56K OHM J 1/6
R1365	RC⁄+6333JT+++	CARBON T 33K OHM J 1/6
R1366	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R1367	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R1368	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6
R1369	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6

VD-2 BOARD (VIDEO)
NO.143-0-233V-03600

Location	Part No.	Description
		(COILS)
L1351	4–253V–74426	HF CHOKE 33UH
or	4–253V–97007	HF CHOKE 33UH
		(INTEGRATED CIRCUITS)
IC1351	SILA7013+++++	IC LA7013
		(TRANSISTORS)
Q1351	STC1740Q++++1	TR 2SC1740 Q SP
or	STC1740R++++1	TR 2SC1740 R SP
or	STC536+D++++1	TR 2SC536 D SP
or	STC536+E++++1	TR 2SC536 E SP
Q1352	STC1740Q++++1	TR 2SC1470 Q SP
or	STC1740R++++1	TR 2SC1470 R SP
or	STC536+D++++1	TR 2SC536 D SP
or	STC536+E++++1	TR 2SC536 E SP
Q1353	STC1740Q++++1	TR 2SC1740 Q SP
or	STC1740R++++1	TR 2SC1740 R SP
or	STC536+D++++1	TR 2SC536 D SP
or	STC536+E++++1	TR 2SC536 E SP
		(DIODES)
D1351	SD1SS133+++++	DIODE 1SS133
D1352	SD1SS133+++++	DIODE 1SS133
		(COMPOSITE)
B1351	SRC144ES+++++	TR MD DTC144ES
or	SRC3399++++++	TR MD 2SC3399
		(CAPACITORS)
C1351	CB+16103MA+YG	BC CON 0.01MF 16V M
C1352	CE6R3107MRHAL	ELECT 100MF 6.3V M
C1353	CB+16103MA+YG	BC CON 0.01MF 16V M
C1354	CE6R3476MRHAL	ELECT 47MF 6.3V M
C1355	CC+50820JAYBG	CERAMIC 82PF 50V J
C1356	CB+16103MA+YG	BC CON 0.01MF 16V M
C1357	CC+50560JASLG	CERAMIC 56PF 50V J
C1358	CB+16103MA+YG	BC CON 0.01MF 16V M
C1359	CE+50105MRHAL	ELECT 1MF 50V M

Location	Part No.	Description
C1360	CE6R3107MRHAL	ELECT 100MF 6.3V M
C1361	CB+16103MA+YG	BC CON 0.01MF 16V M
C1362	CB+16103MA+YG	BC CON 0.01MF 16V M
C1363	CE+10476MRHAL	ELECT 47MF 10V M
		(RESISTORS)
R1351	RC⁄+6132JT+++	CARBON T 1.3K OHM J 1/6
R1352	RC⁄+6392JT+++	CARBON T 3.9K OHM J 1/6
R1353	RC⁄+6271JT+++	CARBON T 270 OHM J 1/6
R1355	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6
R1356	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6
R1357	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6
R1358	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R1359	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6
R1360	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R1361	RC⁄+6472JT+++	CARBON T 4.7K OHM J 1/6
R1362	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R1363	RC⁄+6621JT+++	CARBON T 620 OHM J 1/6
R1364	RC⁄+6680JT+++	CARBON T 68 OHM J 1/6
R1365	RC⁄+6563JT+++	CARBON T 56K OHM J 1/6
R1366	RC⁄+6333JT+++	CARBON T 33K OHM J 1/6
R1367	RC⁄+6182JT+++	CARBON T 1.8K OHM J 1/6

VP-1 BOARD (VIDEO PRE-AMP.)
NO.143-0-230V-84400(JAPAN) NO.143-0-230V-84421(U.K.)

Location	Part No.	Description
		(COILS)
L1503	4–253V–74332	HF CHOKE 100UH
or	4–253V–85825	HF CHOKE 100UH
L1505	4–253V–74332	HF CHOKE 100UH
or	4–253V–85825	HF CHOKE 100UH
L1506	4–253V–85816	HF CHOKE 18UH
or	4–253V–85816	HF CHOKE 18UH
L1507	4–253V–74332	HF CHOKE 100UH
or	4–253V–85825	HF CHOKE 100UH
		(INTEGRATED CIRCUITS)
IC1501	SIAN3313+++++	IC AN3313
		(TRANSISTORS)
Q1502	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1503	STC2669O++++T	TR 2SC2669 O
or	STC2669Y++++T	TR 2SC2669 Y
or	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1504	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1509	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
Q1510	STC2839D++++T	TR 2SC2839 D
or	STC2839E++++T	TR 2SC2839 E
		(CAPACITORS)
C1501	CE+50106MRAKL	ELECT 10MF 50V M R AK
C1502	CE+50106MRAKL	ELECT 10MF 50V M R AK
C1503	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1504	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1507	CE+50105MRAKL	ELECT 1MF 50V M R AK
C1508	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1509	CE+10476MRAKL	ELECT 47MF 10V M R AK
C1512	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1513	CC+50681JAYBG	CERAMIC 680PF 50V J A YB G
C1514	CC+50180JASLG	CERAMIC 18PF 50V J A SL G
C1515	CC+50220JRSLL	CERAMIC 22PF 50V J R S

Location	Part No.	Description
C1516	CM+50104KG++S	MYLAR 0.1MF 50V K G
C1525	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1526	CB+16103MA+YG	BC CON 0.01MF 16V M A Y G
C1529	CE+10476MRAKL	ELECT 47MF 10V M R AK
C1530	CB+25473KRXRL	BC CON 0.047MF 25V K R
C1534	CM+50104KG++S	MYLAR 0.1MF 50V K G
		(RESISTORS)
R1503	RC/+6821JT+++	CARBON T 820 OHM J 1/6
R1504	RC/+6821JT+++	CARBON T 820 OHM J 1/6
R1509	RC/+6122JT+++	CARBON T 1.2K OHM J 1/6
R1510	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1511	RC/+6821JT+++	CARBON T 820 OHM J 1/6
R1512	RC/+6681JT+++	CARBON T 680 OHM J 1/6
R1513	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6
R1514	RC/+6152JT+++	CARBON T 1.5K OHM J 1/6
R1515	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1533	RC/+4100JT++R	CARBON T 10 OHM J 1/4
R1534	RC/+6100JT+++	CARBON T 10 OHM J 1/6
R1535	RC/+6682JT+++	CARBON T 6.8K OHM J 1/6
R1536	RC/+6682JT+++	CARBON T 6.8K OHM J 1/6
R1537	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1538	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R1539	RC/+6152JT+++	CARBON T 1.5K OHM J 1/6

SY-1 BOARD (SYSTEM CONTROL)
NO.143-0-230V-92721(JAPAN) NO.143-0-230V-92723(U.K.)

Location	Part No.	Description
		(MISCELLANEOUS)
	143-2-368T-10000	HEAT SINK
F3001	4-201V-00101	FUSE, 50V/0.6A
X3001	4-953V-07600	FILTER
		(INTEGRATED CIRCUITS)
IC3001	SILC6510C773+	IC LC6510C773
IC3002	SILM6402H1880	IC LM6402H1880
IC3003	SILA6324+++++	IC LA6324
or	SIUPC324C++++	IC UPC324C
IC3004	SIBA6993+++++	IC BA6993
or	SILA6393D++++	IC LA6393D
or	SIUPC393C++++	IC UPC393C
IC3005	SIBA6238A++++	IC BA6238A
IC3006	SIBA6209+++++	IC BA6209
		(TRANSISTORS)
Q3001	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
or	STJC501P++++T	TR JC501 P
or	STJC501Q++++T	TR JC501 Q
Q3003	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
or	STJC501P++++T	TR JC501 P
or	STJC501Q++++T	TR JC501 Q
Q3005	STB632+E+++++	TR 2SB632 E
or	STB632+F+++++	TR 2SB632 F
Q3006	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
or	STJC501P++++T	TR JC501 P
or	STJC501Q++++T	TR JC501 Q
Q3007	STC1740Q++++B	TR 2SC1740 Q SP

Location	Part No.	Description
Q3007	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
or	STJC501P++++T	TR JC501 P
or	STJC501Q++++T	TR JC501 Q
Q3008	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
or	STJC501P++++T	TR JC501 P
or	STJC501Q++++T	TR JC501 Q
Q3009	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
or	STJC501P++++T	TR JC501 P
or	STJC501Q++++T	TR JC501 Q
Q3010	STC1740Q++++B	TR 2SC1740 Q SP
or	STC1740R++++B	TR 2SC1740 R SP
or	STC536+E++++B	TR 2SC536 E SP
or	STC536+F++++B	TR 2SC536 F SP
or	STJC501P++++T	TR JC501 P
or	STJC501Q++++T	TR JC501 Q
		(DIODES)
D3001	SDGZA051Z+++T	ZENER DIODE GZA5.1Z
D3002	SDGZA110Y+++T	ZENER DIODE GZA11Y
D3003	SDGZA110Z+++T	ZENER DIODE GZA11Z
D3014	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3015	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3016	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3018	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3020	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3021	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3022	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3023	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3024	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3026	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3027	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3028	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3029	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3030	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3031	SDDS442+++++T	DIODE DS442
or	SD1S2473++++T	DIODE 1S2473
D3032	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D3040	SDDS135+C++++	DIODE DS135 C
or	SDDS135+D++++	DIODE DS135 D
D3041	SDDS135+C++++	DIODE DS135 C
or	SDDS135+D++++	DIODE DS135 D
D3042	SDDS135+C++++	DIODE DS135 C
or	SDDS135+D++++	DIODE DS135 D
D3043	SDDS135+C++++	DIODE DS135 C
or	SDDS135+D++++	DIODE DS135 D
D5001	SDDS135+D++++	DIODE DS135 D
		(COMPOSITE)
B3001	4-956V-10355	R-PACK 10K OHM X 5
or	4-957V-10305	R-PACK 10K OHM X 5

Location	Part No.	Description
B3002	4-956V-22358	R-PACK 22K OHM X 8
or	4-957V-22308	R-PACK 22K OHM X 8
B3003	4-956V-10353	R-PACK 10K OHM X 3
or	4-957V-10305	R-PACK 10K OHM X 5
B3004	4-956V-10353	R-PACK 10K OHM X 3
or	4-957V-10305	R-PACK 10K OHM X 5
B3011	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3012	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3013	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3014	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3015	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3016	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3017	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3018	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3019	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
B3020	SRC3399++++++	TR MD 2SC3399
or	SRRN1204+++++	TR MD RN1204
		(CAPACITORS)
C3001	CC+50101KRYBL	CERAMIC 100PF 50V K R YB
C3002	CC+50101KRYBL	CERAMIC 100PF 50V K R YB
C3003	CE+25475MRHAL	ELECT 4.7MF 25V M R HA
C3004	CB+25103KRXRL	BC CON 0.01MF 25V K R
C3005	CB+25104ZRF+L	BC CON 0.1MF 25V Z R F
C3006	CB+25104ZRF+L	BC CON 0.1MF 25V Z R F
C3007	CE+16106MRAKL	ELECT 10MF 16V M R AK
C3008	CW+50105MRNPL	NON POLARIZED 1MF 50V M
C3009	CW+50105MRNPL	NON POLARIZED 1MF 50V M
C3010	CW+25106MRNPL	NON POLARIZED 10MF 25V M
C3011	CB+25103KRXRL	BC CON 0.01MF 25V K R
C3012	CM+50104KR++L	MYLAR 0.1MF 50V K R
C3014	CE6R3107MRHAL	ELECT 100MF 6.3V M R HA
C3016	CB+25103KRXRL	BC CON 0.01MF 25V K R
C3017	CB+25103KRXRL	BC CON 0.01MF 25V K R
C3018	CB+25104ZRF+L	BC CON 0.1MF 25V Z R F
C3019	CB+25103KRXRL	BC CON 0.01MF 25V K R
C3020	CE+50225MRHAL	ELECT 2.2MF 50V M R HA
C3022	CB+25822KRXRL	BC CON 0.0082MF 25V K
C3023	CW+50225MRNPL	NON POLARIZED 2.2MF 50V M
C3024	CW+25106MRNPL	NON POLARIZED 10MF 25V M
C3025	CE+50225MRHAL	ELECT 2.2MF 50V M R HA
		(RESISTORS)
R3001	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3002	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6
R3003	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3004	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6
R3005	RC/+6105JT+++	CARBON T 1M OHM J 1/6
R3006	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3007	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R3008	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3009	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3010	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3011	RC/+4221JT++R	CARBON T 220 OHM J 1/4
R3012	RC/+4681JT++R	CARBON T 680 OHM J 1/4
R3013	RC/+4221JT++R	CARBON T 220 OHM J 1/4
R3014	RC/+4221JT++R	CARBON T 220 OHM J 1/4
R3015	RC/+4681JT++R	CARBON T 680 OHM J 1/4
R3016	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R3017	RC/+4271JT++R	CARBON T 270 OHM J 1/4
R3018	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3019	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R3020	RC/+4471JT++R	CARBON T 470 OHM J 1/4

Location	Part No.	Description
R3021	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3022	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3023	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3024	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3025	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3026	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3027	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3028	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3029	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3030	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3031	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3033	RC/+4103JT++R	CARBON T 10K OHM J 1/4
R3034	RC/+6473JT+++	CARBON T 47K OHM J 1/6
R3035	RC/+6153JT+++	CARBON T 15K OHM J 1/6
R3036	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3037	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3038	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R3039	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3040	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3041	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3042	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3043	RC/+4561JT++R	CARBON T 560 OHM J 1/4
R3044	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3046	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3047	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3048	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3049	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3050	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3052	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3053	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3054	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3055	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3056	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3057	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3058	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3059	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3062	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3063	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3064	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3067	RC/+6203JT+++	CARBON T 20K OHM J 1/6
R3068	RC/+6912JT+++	CARBON T 9.1K OHM J 1/6
R3069	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3070	RC/+4101JT++R	CARBON T 100 OHM J 1/4
R3073	RC/+6331JT+++	CARBON T 330 OHM J 1/6
R3074	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3075	RC/+6473JT+++	CARBON T 47K OHM J 1/6
R3076	RC/+6684JT+++	CARBON T 680K OHM J 1/6
R3077	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3078	RC/+6471JT+++	CARBON T 470 OHM J 1/6
R3079	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3080	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3081	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3082	RC/+6154JT+++	CARBON T 150K OHM J 1/6
R3083	RC/+6682JT+++	CARBON T 6.8K OHM J 1/6
R3084	RC/+6273JT+++	CARBON T 27K OHM J 1/6
R3085	RC/+4273JT++R	CARBON T 27K OHM J 1/4
R3086	RC/+6124JT+++	CARBON T 120K OHM J 1/6
R3087	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3088	RC/+6152JT+++	CARBON T 1.5K OHM J 1/6
R3091	RC/+6752GT+++	CARBON T 7.5K OHM G 1/6
R3092	RC/+6623GT+++	CARBON T 62K OHM G 1/6
R3094	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R3095	RC/+6223GT+++	CARBON T 22K OHM G 1/6
R3096	RC/+6751GT+++	CARBON T 750 OHM G 1/6
R3097	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3098	RC/+6103GT+++	CARBON T 10K OHM G 1/6
R3099	RC/+6124JT+++	CARBON T 120K OHM J 1/6
R3100	RC/+6124JT+++	CARBON T 120K OHM J 1/6
R3101	RC/+6333GT+++	CARBON T 33K OHM G 1/6
R3102	RC/+6303GT+++	CARBON T 30K OHM G 1/6
R3103	RC/+6824GT+++	CARBON T 820K OHM G 1/6
R3104	RC/+6103GT+++	CARBON T 10K OHM G 1/6
R3105	RC/+6103JT+++	CARBON T 10K OHM J 1/6

Location	Part No.	Description
R3106	RC/+6124GT+++	CARBON T 120K OHM G 1/6
R3107	RC/+6124GT+++	CARBON T 120K OHM G 1/6
R3108	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3109	RC/+6221JT+++	CARBON T 220 OHM J 1/6
R3110	RM++13R3JF+++	METAL F 3.3 OHM J 1W
R3111	RM++12R2GF+++	METAL F 2.2 OHM J 1W
R3112	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3113	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3114	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3115	RC/+4103JT++R	CARBON T 10K OHM J 1/4
R3116	RC/+6333JT+++	CARBON T 33K OHM J 1/6
R3117	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3118	RC/+6122JT+++	CARBON T 1.2K OHM J 1/6
R3119	RC/+6223JT+++	CARBON T 22K OHM J 1/6
R3122	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R3123	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R3124	RC/+4103JT++R	CARBON T 10K OHM J 1/4
R3125	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3126	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R3127	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6
R3128	RC/+4103JT++R	CARBON T 10K OHM J 1/4
R3129	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R3130	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3131	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R3132	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3133	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3134	RC/+6224JT+++	CARBON T 220K OHM J 1/6
R3137	RC/+4153JT++R	CARBON T 15K OHM J 1/4
R3138	RC/+6163GT+++	CARBON T 16K OHM G 1/6
R3139	RC/+6472JT+++	CARBON T 4.7K OHM J 1/6
R3140	RC/+6473JT+++	CARBON T 47K OHM J 1/6
R3141	RC/+6473JT+++	CARBON T 47K OHM J 1/6
R3143	RC/+6473JT+++	CARBON T 47K OHM J 1/6
R3144	RC/+6101JT+++	CARBON T 100 OHM J 1/6
R3145	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R3146	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R3149	RC/+6103JT+++	CARBON T 10K OHM J 1/6

SY-1 BOARD (POWER SUPPLY)
NO.143-0-230V-92721(JAPAN) NO.143-0-230V-92723(U.K.)

Location	Part No.	Description
		(MISCELLANEOUS)
	143-2-368T-10200	HEAT SINK
	143-2-310T-04600	BRACKET, TRANSISTOR
		(COILS)
L5001	4-252V-12100	LF CHOKE 185UH
or	4-252V-12200	LF CHOKE 185UH
or	4-252V-13500	LF CHOKE 185UH
L5002	⚠ 4-471V-10200	CORE
L5003	4-253V-88722	HF CHOKE 56UH
		(INTEGRATED CIRCUITS)
IC5001	⚠ SISTK7216S+++	IC STK7216S
		(TRANSISTORS)
Q5001	STD1666S+++++	TR 2SD1666 S
Q5002	STD400+F+++++	TR 2SD400 F
or	STD400+G+++++	TR 2SD400 G
Q5003	STD1666R+++++	TR 2SD1666 R
or	STD1666S+++++	TR 2SD1666 S
Q5006	STB544+F+++++	TR 2SB544 F
or	STB544+G+++++	TR 2SB544 G
Q5009	STC3383R+++++	TR 2SC3383 R
or	STC3383S+++++	TR 2SC3383 S

Location	Part No.	Description
		(DIODES)
D5001	SDDS135+C++++	DIODE DS135 C
D5002	SDDS135+C++++	DIODE DS135 C
or	SDDS135+D++++	DIODE DS135 D
D5003	SDBZ150+++++	ZENER DIODE BZ150
or	SDGZB150C++++	ZENER DIODE GZB15C
or	SDRD150FB2+++	ZENER DIODE RD15F B2
D5004	SDDS442+++++T	DIODE DS442
D5005	SDGZA160Z+++T	ZENER DIODE GZA16Z
D5006	SDGMA01+++++T	DIODE GMA01
D5007	SDGZA062Z+++T	ZENER DIODE GZA6.2Z
D5008	SDGMA01+++++T	DIODE GMA01
D5016	SDGMA01+++++T	DIODE GMA01
D5017	SDGMA01+++++T	DIODE GMA01
D5018	SDGMA01+++++T	DIODE GMA01
D5019	SDGZA220Y+++T	ZENER DIODE GZA22Y
D5020	SDGZA043Y+++T	ZENER DIODE GZA4.3Y
		(COMPOSITE)
B5001	SRC3400+++++	TR MD 2SC3400
or	SRRN1203+++++	TR MD RN1203
		(CAPACITORS)
C5001	CE+35228MVHAS	ELECT 2200MF 35V M V HA
C5002	CE100107MY++S	ELECT 100MF 100V M Y
C5003	CE100226MY++S	ELECT 22MF 100V M Y
C5004	CE+16228MVHAS	ELECT 2200MF 16V M V HA
C5005	CE+35226MRHAL	ELECT 22MF 35V M R HA
C5007	CE+10107MRHAL	ELECT 100MF 10V M R HA
C5008	CC+50182KDYBS	CERAMIC 0.0018MF 50V K
C5010	CE+25476MRHAL	ELECT 47MF 25V M R HA
C5011	CE+10476MRHAL	ELECT 47MF 10V M R HA
C5014	CE+35476MRHAL	ELECT 47MF 35V M R HA
C5031	CE+10226MRHAL	ELECT 22MF 10V M R HA
		(RESISTORS)
R5001	RC/+4103JT++R	CARBON T 10K OHM J 1/4
R5002	RC/+2682JP+++	CARBON P 6.8K OHM J 1/2
R5003	⚠ RM/+22R2JPRF+	FUSIBLE P 2.2 OHM J 1/2
R5004	RC/+4271JT++R	CARBON T 270 OHM J 1/4
R5006	RC/+4391JT++R	CARBON T 390 OHM J 1/4
R5010	RC/+4682JT++R	CARBON T 6.8K OHM J 1/4
R5011	RC/+4222JT++R	CARBON T 2.2K OHM J 1/4
R5017	RC/+4151JT++R	CARBON T 150 OHM J 1/4
R5018	RC/+4151JT++R	CARBON T 150 OHM J 1/4
R5019	RC/+4333JT++R	CARBON T 33K OHM J 1/4
R5020	RC/+4102JT++R	CARBON T 1K OHM J 1/4
R5022	RM++1392JF+++	METAL 3.9K OHM J 1W
R5023	RM++2332JFOS+	METAL F 3.3K OHM J 2W OS
R5024	⚠ RM/+45R6JFRF+	FUSIBLE 5.6 OHM J 1/4
R5031	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R5032	RC/+6222JT+++	CARBON T 2.2K OHM J 1/6

SY-2 BOARD (KEY OPERATION)
NO.143-0-230V-88701(JAPAN) NO.143-0-230V-88721(U.K.)

Location	Part No.	Description
		(MISCELLANEOUS)
	143-2-374T-10500	BRACKET, OPERATION LEDS
		(SWITCHES)
S3201	4-231V-72200	EJECT
or	4-231V-72400	EJECT
S3202	4-231V-72200	STOP
or	4-231V-72400	STOP
S3203	4-231V-72200	PLAY
or	4-231V-72400	PLAY
S3204	4-231V-72200	FF

Location	Part No.	Description
S3204	4-231V-72400	FF
S3205	4-231V-72200	PAUSE/STILL
or	4-231V-72400	PAUSE/STILL
S3206	4-231V-72210	REC
S3207	4-231V-72200	ON/STAND BY
or	4-231V-72400	ON/STAND BY
S3208	4-231V-72200	REW
or	4-231V-72400	REW
		(VARIABLE RESISTORS)
VR3201	4-222V-28900	TRACKING
VR3202	4-222V-29000	PICTURE
		(DIODES)
D3201	SLPR5608S++RE	LED PR5608S···ON/STAND BY
D3202	SLBG5628S++GR	LED BG5628S···PLAY
D3203	SLPR5608S++RE	LED PR5608S···REC
D3204	SLBG5628S++GR	LED PR5628S···FF
D3205	SLBG5628S++GR	LED PR5628S···REW
D3206	SLPR5608S++RE	LED PR5608S···PAUSE/STILL
		(RESISTORS)
R3201	RC⁄+6751JT+++	CARBON T 750 OHM J 1/6
R3202	RC⁄+6393JT+++	CARBON T 39K OHM J 1/6
R3203	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6

PW-1 BOARD (POWER SUPPLY)
NO.143-0-230V-85575(JAPAN) NO.143-0-230V-85576(U.K.)

Location	Part No.	Description
		(MISCELLANEOUS)
	143-2-383T-03100	HOLDER, FUSE
F5101	⚠ 4-234V-17606	FUSE, 0.4A
		(DIODES)
D5101	⚠ 4-202V-13701	DIODE DSA17C KC-6
or	⚠ SDRO2Z+++++++	DIODE RO2Z
D5102	⚠ 4-202V-13701	DIODE DSA17C KC-6
or	⚠ SDRO2Z+++++++	DIODE RO2Z
D5103	⚠ 4-202V-13701	DIODE DSA17C KC-6
or	⚠ SDRO2Z+++++++	DIODE RO2Z
D5104	⚠ 4-202V-13701	DIODE DSA17C KC-6
or	⚠ SDRO2Z+++++++	DIODE RO2Z
		(CAPACITORS)
C5101	⚠ 4-223V-24200	4700PF/250V (JAPAN)
or	⚠ 4-223V-28900	4700PF/250V (U.K.)

TN-2 BOARD (TUNING CONTROL)
NO.143-0-230V-96921

Location	Part No.	Description
		(SWITCHES)
S6201	4-231V-22200	AFT
		(VARIABLE RESISTORS)
VR6201	4-222V-21200	TUNING
		(INTEGRATED CIRCUITS)
IC6201	SIUPC1362C+++	IC UPC1362C
IC6202	SIL5631++++++	IC L5631
or	SIUPC574J++++	IC UPC574J

Location	Part No.	Description
		(TRANSISTORS)
Q6201	STC536+E+++++	TR 2SC536 E
or	STC536+F+++++	TR 2SC536 F
Q6205	STC536+E+++++	TR 2SC536 E
or	STC536+F+++++	TR 2SC536 F
Q6206	STA608+E+++++	TR 2SA608 E
or	STA608+F+++++	TR 2SA608 F
		(DIODES)
D6201	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6202	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6203	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6204	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6205	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6206	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6207	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6208	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6209	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6210	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6211	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6212	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6213	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6214	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6215	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6216	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6229	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6230	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6231	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6232	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6233	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6234	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6235	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6236	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6237	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6238	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6239	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6240	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6241	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6242	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6243	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6244	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133

Location	Part No.	Description
D6245	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6246	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6247	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6248	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
		(COMPOSITE)
B6201	SRC144F++++++	TR MD DTC144F
		(CAPACITORS)
C6201	CC+50103ZDYFS	CERAMIC 0.01MF 50V Z D
C6202	CE+50226MVHAS	ELECT 22MF 50V M V HA
C6203	CE+16107MVHAS	ELECT 100MF 16V M V HA
C6204	CC+50103ZDYFS	CERAMIC 0.01MF 50V Z D
C6205	CE+50104MVAKS	ELECT 0.1MF 50V M V AK
C6206	CE+16106MVAKS	ELECT 10MF 16V M V AK
C6207	CC+50103ZDYFS	CERAMIC 0.01MF 50V Z D
C6208	CE+50334MVAKS	ELECT 0.33MF 50V M V AK
C6209	CM+50223JM++S	MYLAR 0.022MF 50V J M
C6210	CE+50104MVAKS	ELECT 0.1MF 50V M V AK
C6211	CE+50104MVAKS	ELECT 0.1MF 50V M V AK
		(RESISTORS)
R6201	RC/+6474JT+++	CARBON T 470K OHM J 1/6
R6202	RC/+6393JT+++	CARBON T 39K OHM J 1/6
R6203	RC/+6273JT+++	CARBON T 27K OHM J 1/6
R6210	RC/+6124JT+++	CARBON T 120K OHM J 1/6
R6211	RC/+6154JT+++	CARBON T 150K OHM J 1/6
R6212	RC/+6103JT+++	CARBON T 10K OHM J 1/6
R6213	RC/+6683JT+++	CARBON T 68K OHM J 1/6
R6214	RC/+6153JT+++	CARBON T 15K OHM J 1/6
R6215	RC/+6153JT+++	CARBON T 15K OHM J 1/6
R6216	RC/+6104JT+++	CARBON T 100K OHM J 1/6
R6217	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R6218	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R6219	RC/+6102JT+++	CARBON T 1K OHM J 1/6
R6220	RC/+6102JT+++	CARBON T 1K OHM J 1/6

TN-3 BOARD (CHANNEL SELECT & TIMER)
NO.143-0-230V-97021

Location	Part No.	Description
		(MISCELLANEOUS)
	143-2-210T-05100	BRACKET, PHOTO SENSOR
	143-2-386T-02300	BRACKET, DIGITAL DISPLAY
	143-2-374T-11000	BRACKET, LEDS
A6301	4-985V-02600	DISPLAY, DIGITAL
X6301	4-953V-07600	FILTER
		(SWITCHES)
S6301	4-231V-72200	TV CHANNEL (UP)
or	4-231V-72400	TV CHANNEL (UP)
S6302	4-231V-72200	TV CHANNEL (DOWN)
or	4-231V-72400	TV CHANNEL (DOWN)
S6303	4-231V-72200	HOUR
or	4-231V-72400	HOUR
S6304	4-231V-72200	MIN
or	4-231V-72400	MIN
S6305	4-231V-72200	DAY
or	4-231V-72400	DAY
S6306	4-231V-82500	CLOCK/COUNTER
S6307	4-231V-82500	MEMORY
S6308	4-231V-72200	RESET
or	4-231V-72400	RESET

Location	Part No.	Description
S6309	4-231V-72200	OBR
or	4-231V-72400	OBR
S6310	4-231V-72200	ON
or	4-231V-72400	ON
S6311	4-231V-72200	OFF
or	4-231V-72400	OFF
S6312	4-231V-72200	CLOCK SET
or	4-231V-72400	CLOCK SET
S6313	4-231V-28300	TIMER
		(INTEGRATED CIRCUITS)
IC6301	SILC6512D3022	IC LC6512D3022
IC6302	SINJM78L06A++	IC NJM78L06A
IC6303	SIMN1280P++++	IC MN1280P
IC6304	SICX20106A+++	IC CX20106A
		(TRANSISTORS)
Q6301	STC536+E+++++	TR 2SC536 E
or	STC536+F+++++	TR 2SC536 F
Q6302	STA608+E+++++	TR 2SA608 E
or	STA608+F+++++	TR 2SA608 F
Q6303	STA608+E+++++	TR 2SA608 E
or	STA608+F+++++	TR 2SA608 F
Q6304	STC2021Q+++++	TR 2SC2021 Q
or	STC2021R+++++	TR 2SC2021 R
		(DIODES)
D6302	SDDS442X++++T	DIODE DS442X
D6303	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6305	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6306	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6307	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6308	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6309	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6310	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6311	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6312	SLBR5608S++RE	LED BR5608S･･･CASSETTE
D6313	SLBR5608S++RE	LED BR5608S･･･DEW
D6315	SLBR5608S++RE	LED BR5608S･･･TIMER
D6316	SPPN323++++++	PHOTO SENSOR, PN323
D6317	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6318	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
D6320	SDGMA01+++++T	DIODE GMA01
or	SD1SS133++++T	DIODE 1SS133
		(COMPOSITE)
B6301	4-955V-10409	R-PACK 100K OHM X 9
B6302	4-955V-10409	R-PACK 100K OHM X 9
B6303	4-955V-33308	R-PACK 33K OHM X 8
B6304	4-955V-10404	R-PACK 100K OHM X 4
		(CAPACITORS)
C6301	CE+50105MVAKS	ELECT 1MF 50V M V AK
C6302	CE+50105MVAKS	ELECT 1MF 50V M V AK
C6303	CE+50105MVAKS	ELECT 1MF 50V M V AK
C6304	CC+50221KAYBG	CERAMIC 220PF 50V K A YB G
C6305	CC+50221KAYBG	CERAMIC 220PF 50V K A YB G
C6306	CE+50105MVAKS	ELECT 1MF 50V M V AK
C6307	CB+25223KDXRS	BC CON 0.022MF 25V K D
C6308	CM+50823JM++S	MYLAR 0.082MF 50V J M
C6309	CC+50471JDSLS	CERAMIC 470PF 50V J D SL
C6310	CE+50335MVAKS	ELECT 3.3MF 50V M V AK
C6311	CE+50105MVAKS	ELECT 1MF 50V M V AK

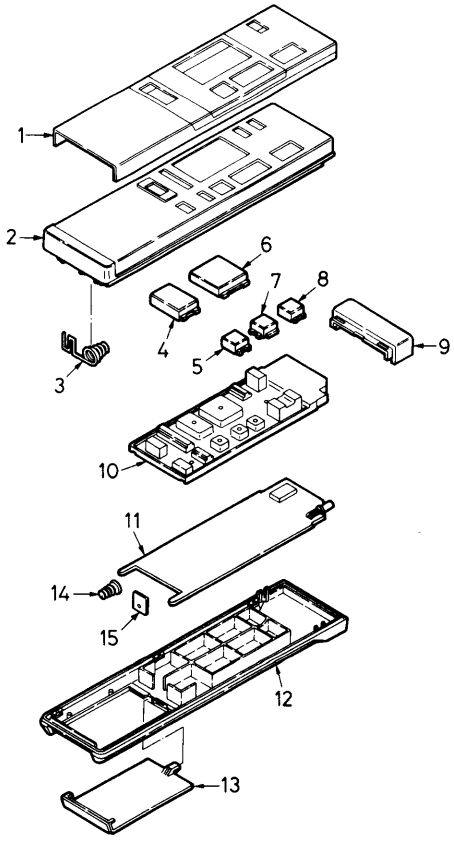
Location	Part No.	Description
C6312	CC+50102KAYBG	CERAMIC 0.001MF 50V K AYBG
C6313	CE+16106MVAKS	ELECT 10MF 16V M V AK
		(RESISTORS)
R6301	RC⁄+6104JT+++	CARBON T 100K OHM J 1/6
R6302	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6303	RC⁄+6333JT+++	CARBON T 33K OHM J 1/6
R6304	RC⁄+4152JT++R	CARBON T 1.5K OHM J 1/4
R6305	RC⁄+6105JT+++	CARBON T 1M OHM J 1/6
R6306	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6
R6307	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R6309	RC⁄+6333JT+++	CARBON T 33K OHM J 1/6
R6312	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6313	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6314	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6315	RC⁄+4102JT++R	CARBON T 1K OHM J 1/4
R6316	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6317	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6318	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6319	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6320	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6321	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6
R6322	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R6323	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R6324	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R6325	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6
R6326	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6
R6327	RC⁄+6223JT+++	CARBON T 22K OHM J 1/6
R6328	RC⁄+6224GT+++	CARBON T 220K OHM G 1/6
R6329	RC⁄+6100JT+++	CARBON T 10 OHM J 1/6
R6330	RC⁄+42R2JT++T	CARBON T 2.2 OHM J 1/4
R6331	RC⁄+6333JT+++	CARBON T 33K OHM J 1/6
R6332	RC⁄+6103JT+++	CARBON T 10K OHM J 1/6
R6333	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6
R6334	RC⁄+6104JT+++	CARBON T 100K OHM J 1/6

REMOTE CONTROL UNIT
NO.143-9-4100-62382

Location	Part No.	Description
		(MISCELLANEOUS)
1	143-2-143T-59086	PLATE, OPERATION
2	143-2-111T-08880	CASE, UPPER
3	143-2-851T-85200	SPRING, TERMINAL
4	143-2-161T-56384	BUTTON, STOP
5	143-2-161T-56494	BUTTON, PAUSE/STILL
6	143-2-161T-56284	BUTTON, PLAY
7	143-2-161T-56493	BUTTON, REW
8	143-2-161T-56492	BUTTON, FF
9	143-2-132T-09080	WINDOW, IR
10	143-2-161T-56584	BUTTON, REC
11	143-0-233V-00980	RM-1 BOARD ASSEMBLY
12	143-2-125T-08180	CASE, LOWER
13	143-2-128T-02980	LID, BATTERY
14	143-2-851T-85300	SPRING, TERMINAL
15	143-2-382T-02200	PLATE, TERMINAL

RM-1 BOARD(REMOTE CONTROL)
NO.143-0-233V-00980

Location	Part No.	Description
		(MISCELLANEOUS)
X1	4-266V-01600	RESONATOR, 455K HZ
or	4-266V-01700	RESONATOR, 455K HZ
		(TRANSISTORS)
Q1	SIUPD1943G+++	UPD1943G
Q2	STC2120GR++++	2SC2120GR
or	STC2120Y+++++	2SC2120Y
or	STC21200+++++	2SC21200
or	STD545+D+++++	2SD545D
or	STD545+E+++++	2SD545E
or	STD545+F+++++	2SD545F
		(DIODES)
D1	SLLD271E7317+	LED, LD271E7317
or	SLSE303YY++++	LED, SE303YY
or	SLSIR56ST3+++	LED, SIR-56ST3
or	SLSLR933A++++	LED, SLR933A
or	SLTLN111+++++	LED, TLN111
D3	SD1S1555+++++	1S1555
or	SD1S1588+++++	1S1588
D4	SD1S1555+++++	1S1555
or	SD1S1588+++++	1S1588
D5	SD1S1555+++++	1S1555
or	SD1S1588+++++	1S1588
		(CAPACITORS)
C1	CC+50101KDYBS	CERAMIC 100PF 50V K
C2	CC+50101KDYBS	CERAMIC 100PF 50V K
C3	CE+10470MVHAS	ELECT 47MF 10V M
or	CE6R3470MVHAS	ELECT 47MF 6.3V M
		(RESISTORS)
R1	RC/+4010JP+++	CARBON 10 OHM J 1/4W



SANYO ELECTRIC TRADING CO., LTD.
33, Hiyoshi-cho 2-chome, Moriguchishi,
Osaka-fu 570, Japan
Dec./'85/2000 NS Printed in Japan

CIRCUIT DIAGRAMS & PRINTED CIRCUIT BOARDS

VHR-1100E

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———	IR REMOTE CONTROL CIRCUIT	Ⓛ

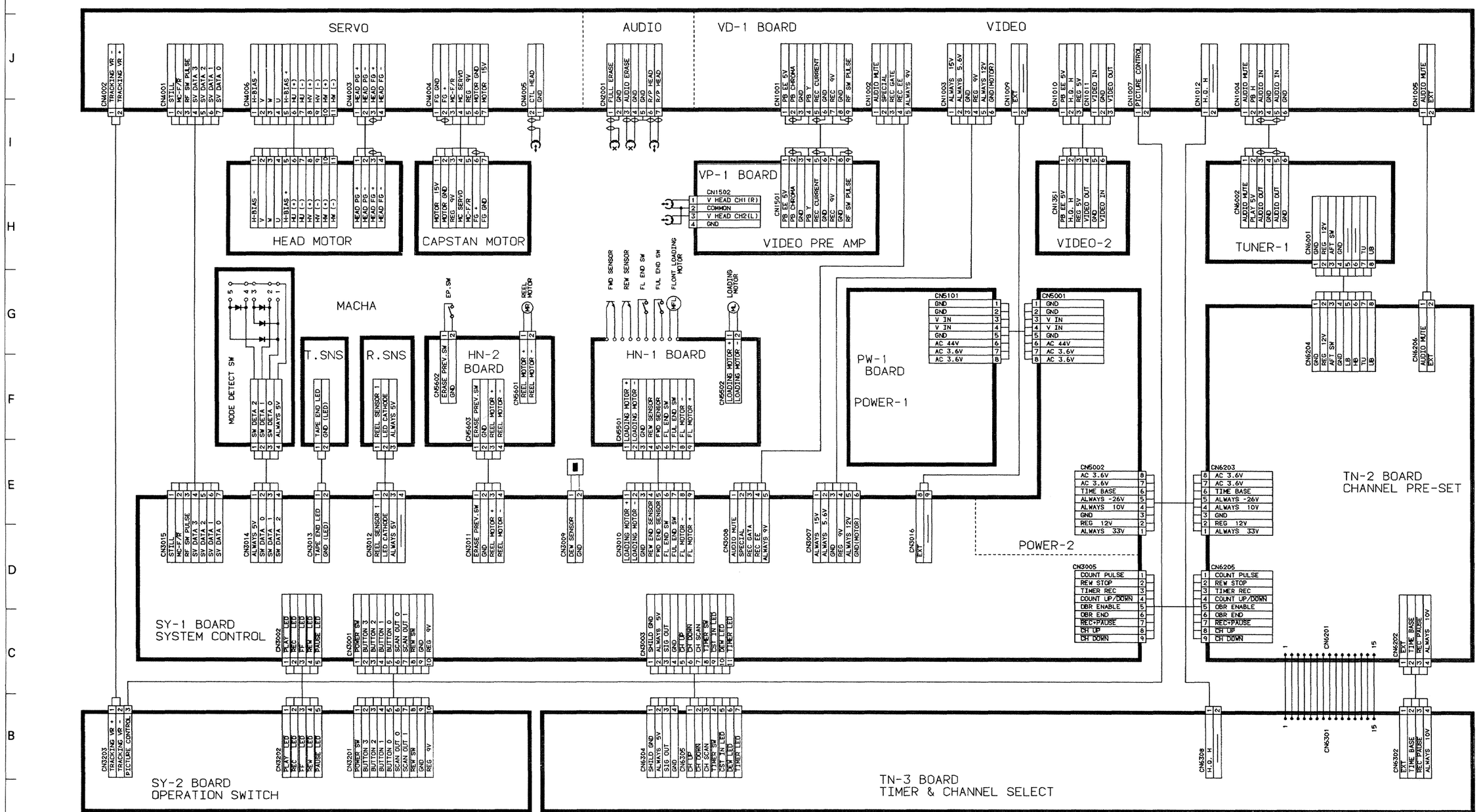
NOTES:

1. All resistance values in "OHMS" unless otherwise noted. (K=1,000 M=1,000,000)
2. All capacitance values in "μfd" unless otherwise noted. p=pico farad
3. All inductance values in "mH" unless otherwise noted. μ=micro henry

PRODUCT SAFETY NOTICE

THE COMPONENTS DESIGNATED BY A SYMBOL (⚠) IN THIS SCHEMATIC DIAGRAM DESIGNATES COMPONENTS WHOSE VALUE ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A SYMBOL NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

OVERALL WIRING DIAGRAM



A
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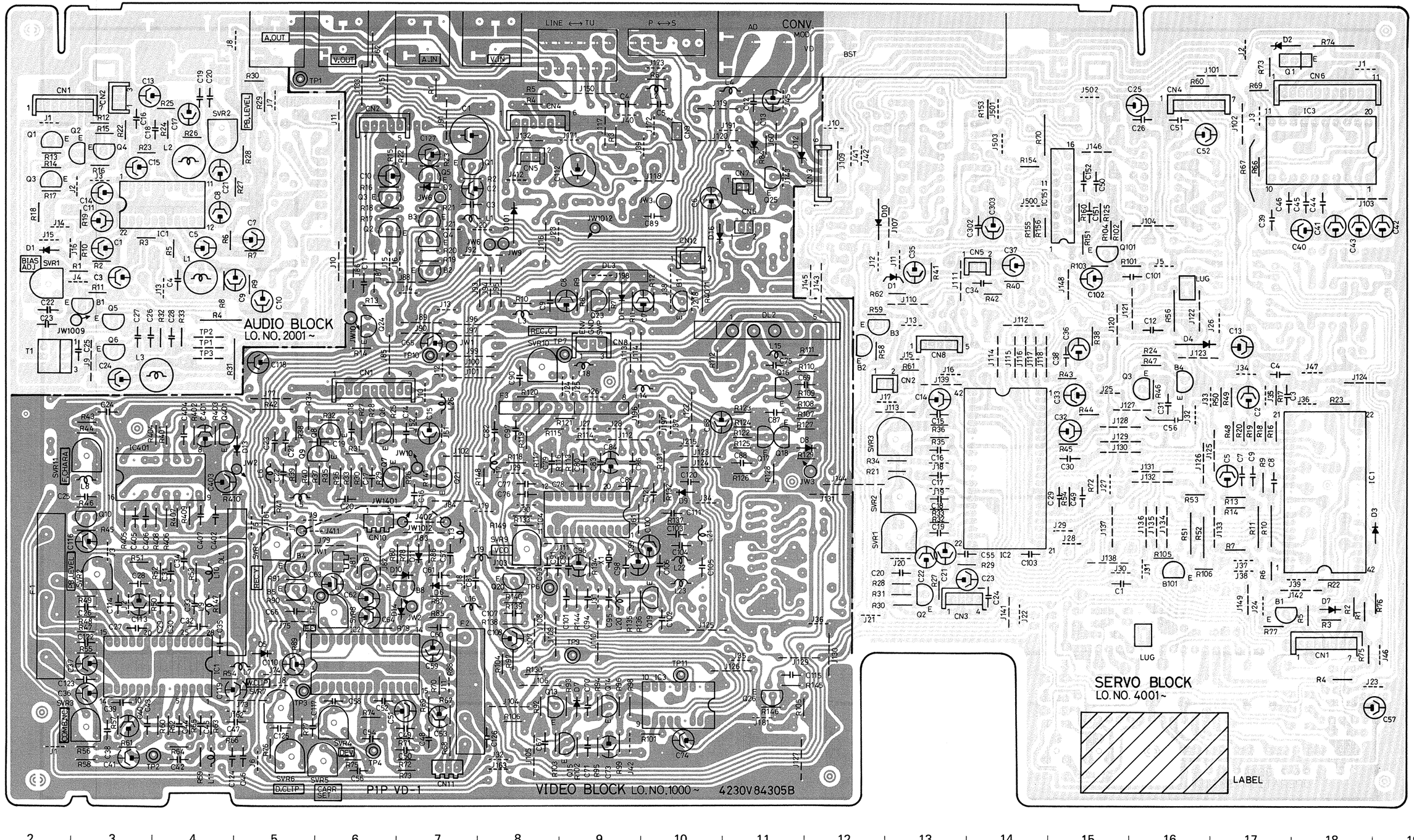
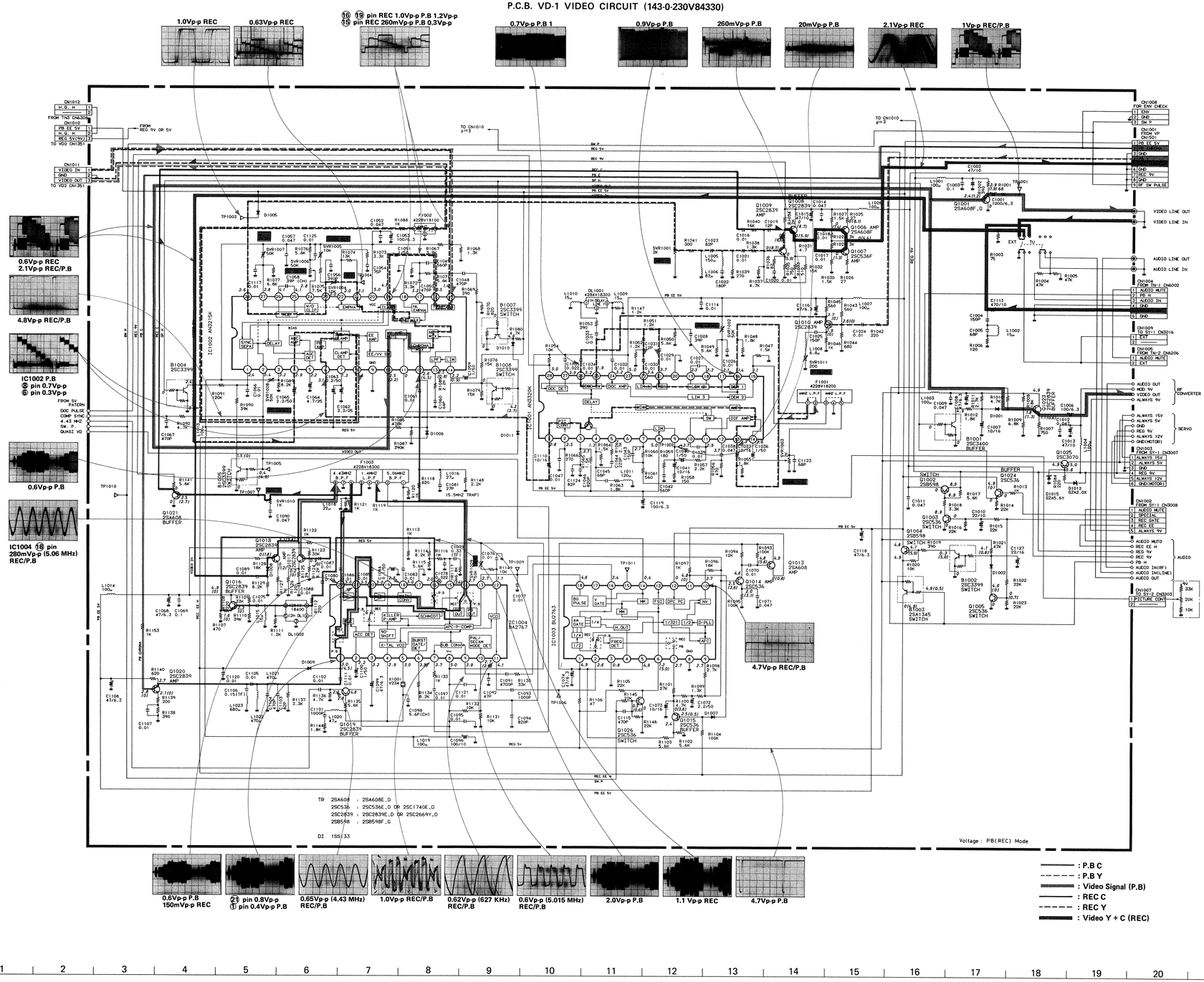
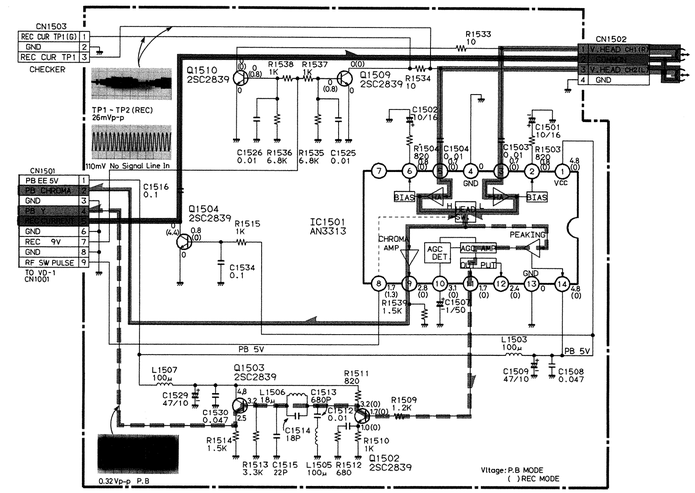
P.C.B. VD-1 VIDEO P.C.B. (143-0-230V84330)

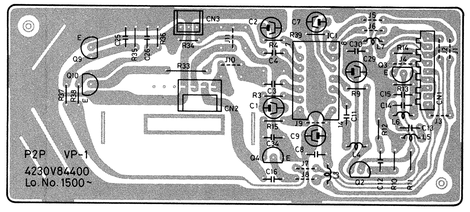


P.C.B. VD-1 VIDEO CIRCUIT (143-0-230V84330)



P.C.B. VP-1 VIDEO PRE-AMP CIRCUIT & P.C.B. (143-0-230V84400) (143-0-230V84421 ASSEMBLER: U.K.)





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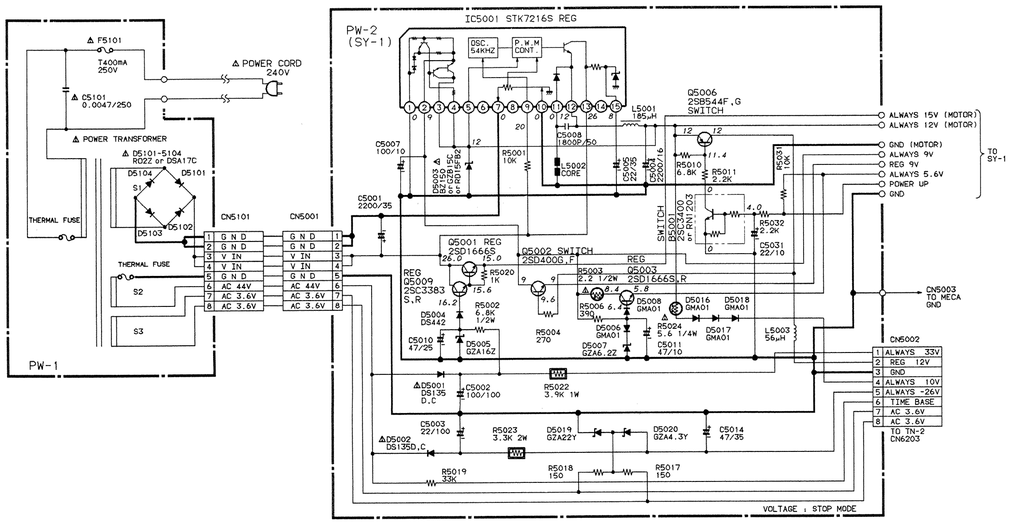
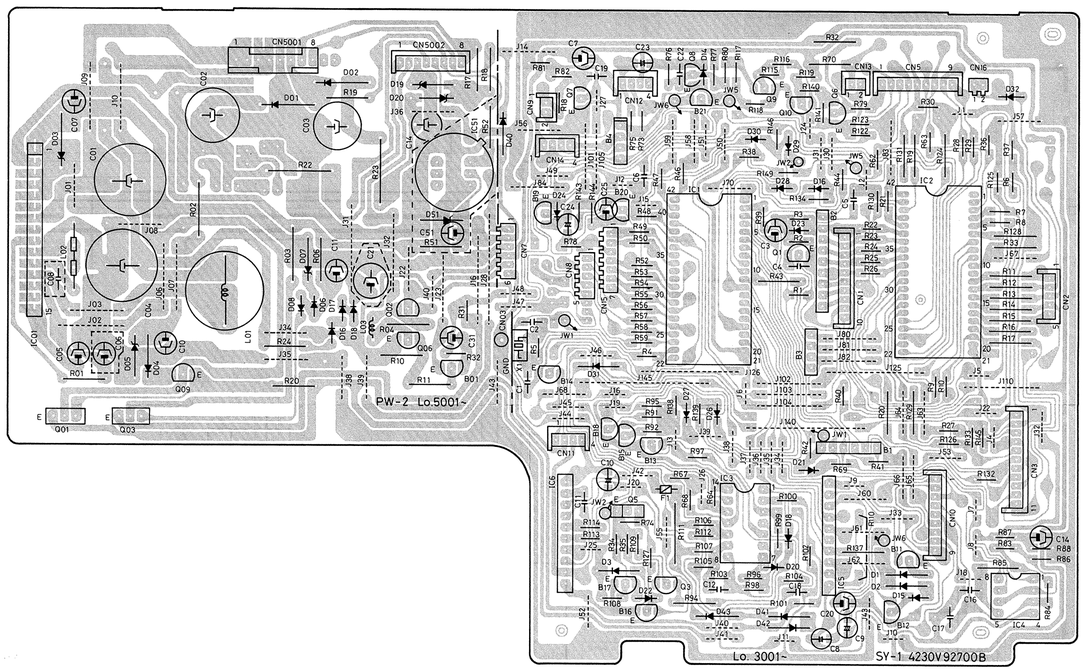
VD-2 Ass'y No.	143-0-233V-02000	143-0-233V-03600
VD-2 P.C.B.	4-233V-02000	4-233V-03600
IC1351	LA7072	LA7013
VDD	5 V	9 V
J1402	○	X
J1411	○	X
JW1102	X	○
JW1403	X	○
LABEL	X	○
CN1010 Pin 3	REG 5 V	REG 9 V

- There are two types of VD-2 assemblies.
- These two types cannot be interchanged, so use the appropriate VD-1 assembly which corresponds to the VD-2 assembly used.
- For a VD-1 assembly with a label attached in the location indicated in the figure, use the 143-0-233V-03600 VD-2 assembly. For a VD-1 assembly without a label, use the 143-0-233V02000 VD-2 assembly.

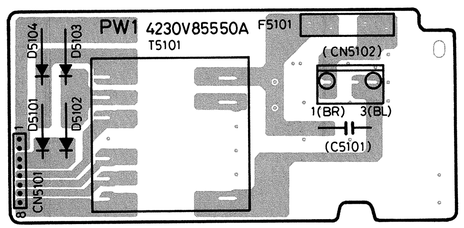
P.C.B. PW-1, SY-1 POWER SUPPLY CIRCUIT (PW-1 143-0-230V85575) (SY-1 143-0-230V92721) (SY-1 143-0-230V92723 ASSEMBLER: U.K.)



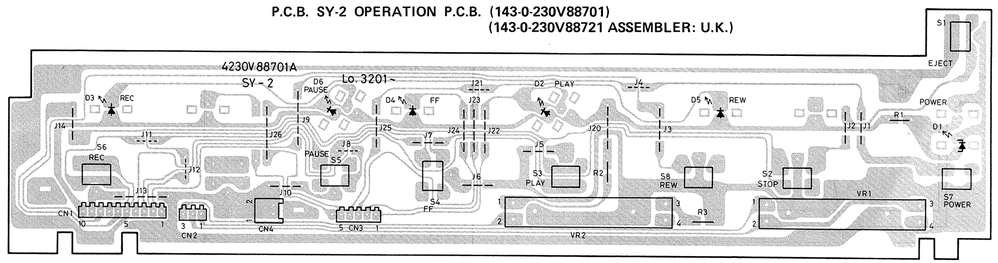
P.C.B. SY-1 SYSTEM CONTROL & POWER SUPPLY P.C.B. (143-0-230V92721) (143-0-230V92723 ASSEMBLER: U.K.)



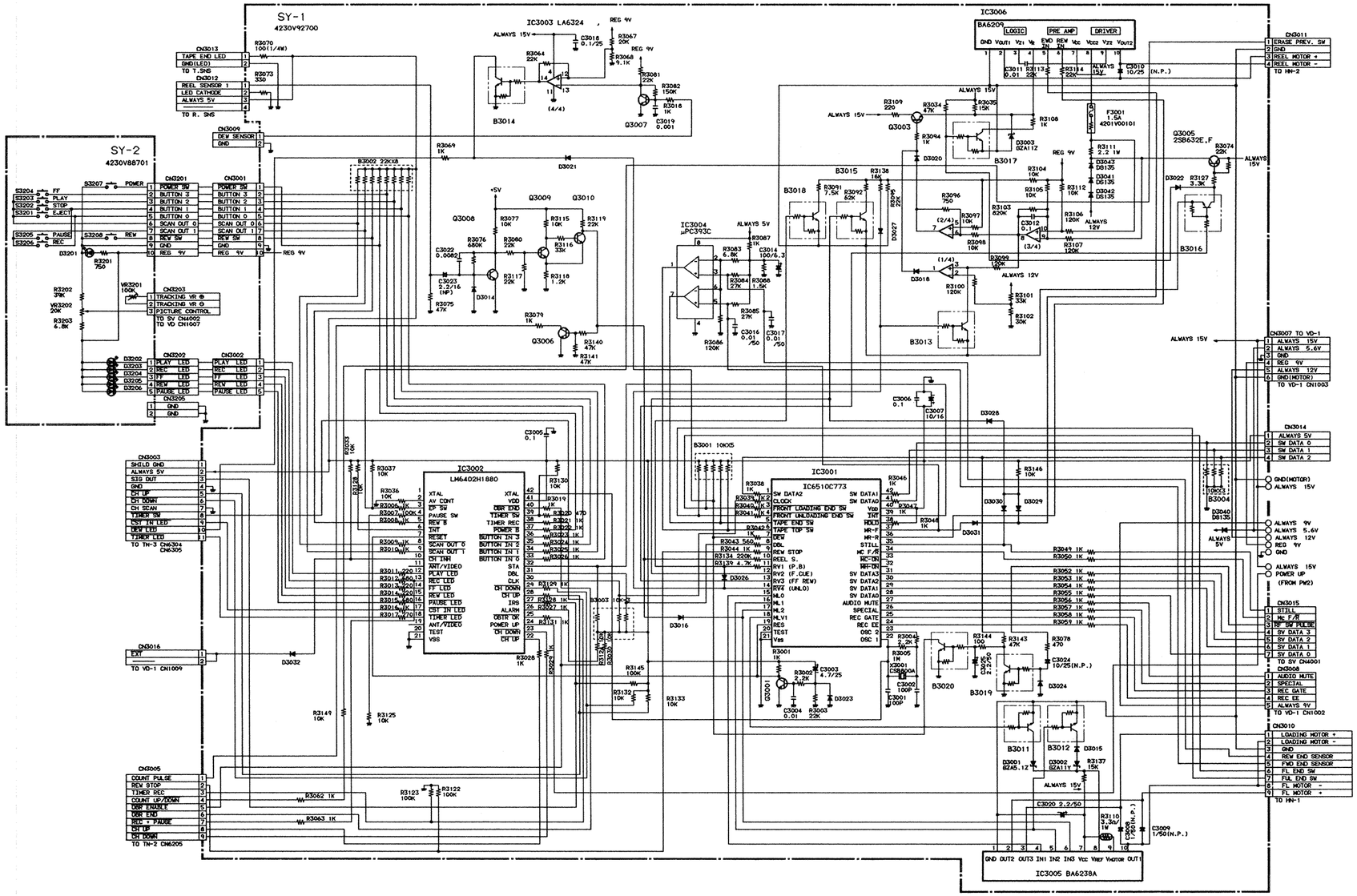
P.C.B. PW-1 POWER SUPPLY P.C.B. (143-0-230V85575)



P.C.B. SY-2 OPERATION P.C.B. (143-0-230V88701) (143-0-230V88721 ASSEMBLER: U.K.)



P.C.B. SY-1 SYSTEM CONTROL CIRCUIT (143-0-230V92721)
(143-0-230V92723 ASSEMBLER: U.K.)
SY-2 OPERATION CIRCUIT (143-0-230V88701)
(143-0-230V88721 ASSEMBLER: U.K.)



MECHA SW	SW0	SW1	SW2	HEX
CN30	3	2	1	
STOP	1	0	0	1
FF/REW	0	1	0	2
PAUSE	1	1	0	3
RVW	0	0	1	4
PB/REC/FCUE	1	0	1	5

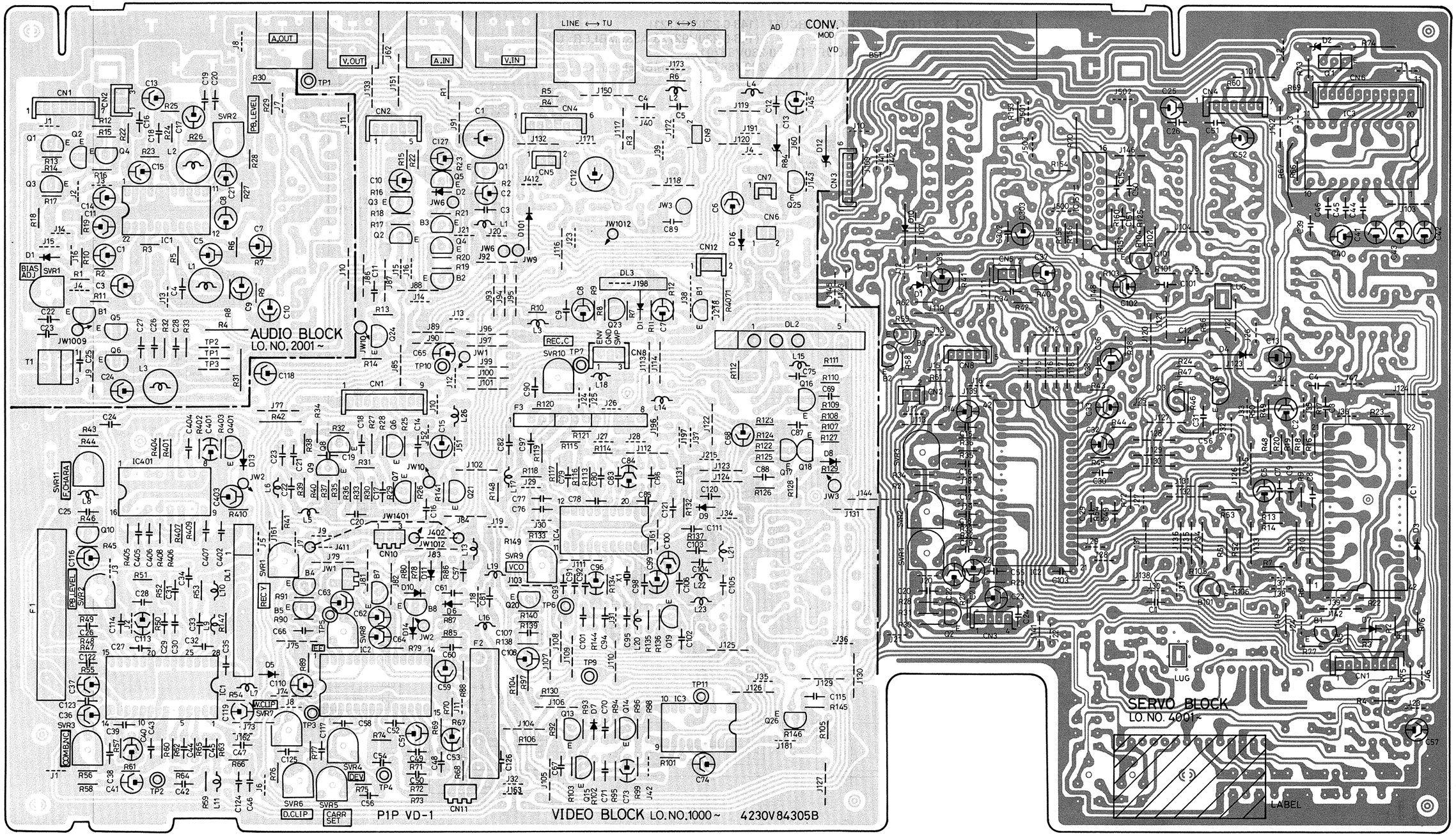
SERVO INTERFACE	D3	D2	D1	D0	HEX
MODE					
PLAY	0	0	0	0	0
STILL	0	0	0	1	1
PAUSE	0	0	1	1	3
EDIT REC	0	1	0	0	4
STOP/FF/REW	0	1	0	1	5
LOAD/UNLOAD	0	1	1	0	6
CUE/REV	1	0	1	0	A

IC1-31 IC1-28

IC5 6238A INPUT (IC1)	ML2 17	ML1 16	ML0 15	OUT1 10	OUT2 2	OUT3 3	(IC5 6238A)	MOTOR VOLTAGE
FRONT UNLOADING	0	0	1	H	L	-		V
FRONT LOADING	1	0	1	L	H	-		V
TAPE UNLOADING	0	1	0	H	-	L		V
TAPE LOADING	1	1	0	L	-	H		V
STOP	-	-	-	L	L	L		V

NOT SPECIFIED DIODES ARE 1SS133
NOT SPECIFIED TRANSISORS(NPN) ARE 2SC536
NOT SPECIFIED DIGITAL TRANSISORS(NPN)
ARE 2SC3599
NOT SPECIFIED RESISTORS ARE 1/6W

P.C.B. VD-1 SERVO P.C.B. (143-0-230V84330)



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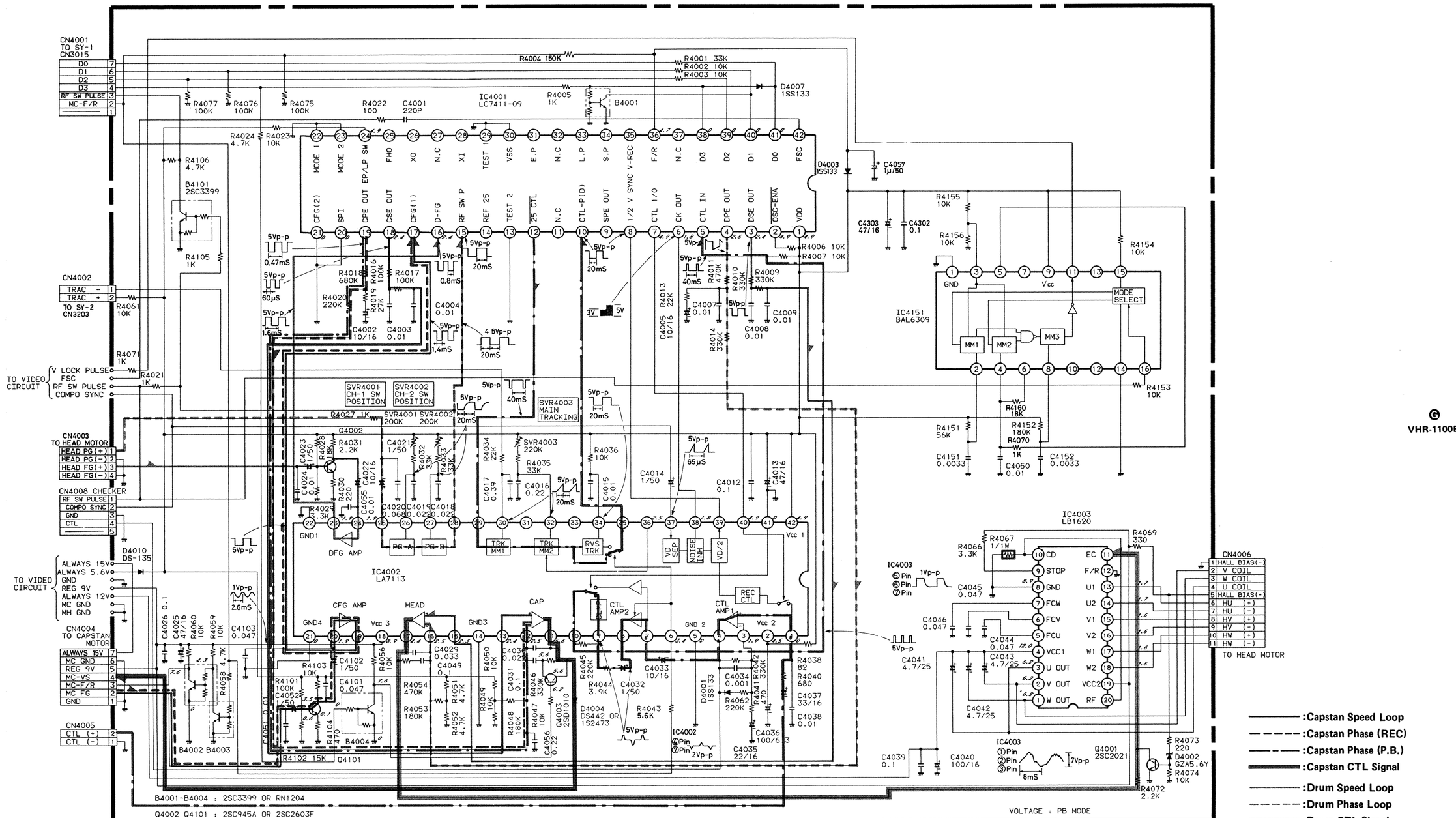
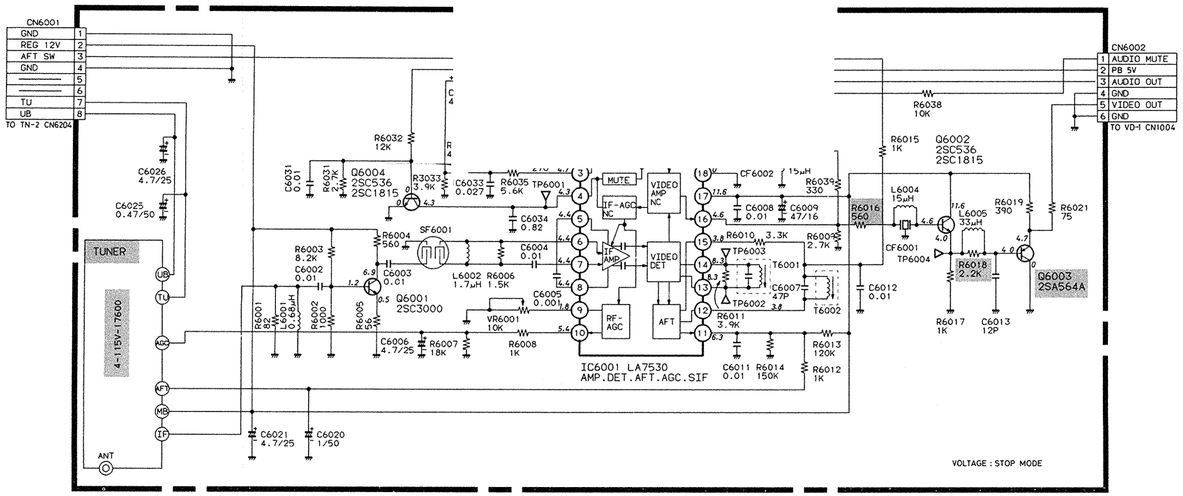
P.C.B. VD-1 SERVO CIRCUIT (143-0-230V84330)

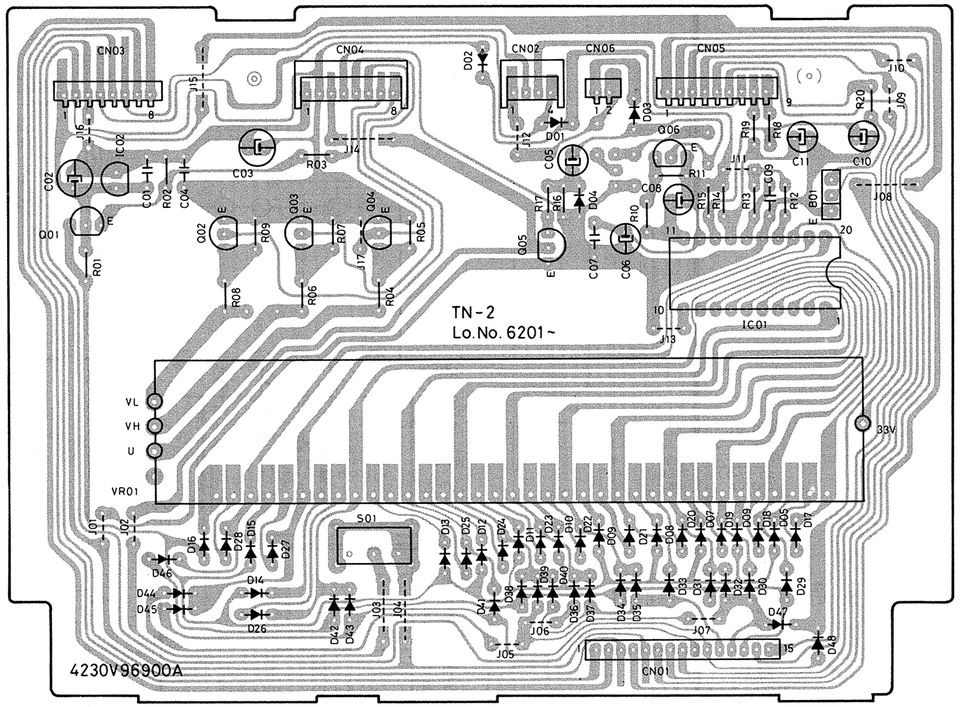

CN4001 TO SY-1 CN3015
D0 D1 D2 D3 RF SW PULSE MC-F/R
IC4001 LC7411-09
B4001
D4007 1SS133
D4003 1SS133
MODE 1 MODE 2 EP/LP SW FHO XO N.C XI TEST 1 VSS E.P N.C L.P S.P 1/2 V SYNC V-REC F/R N.C D3 D2 D1 D0 FSC
CFG(2) SPI CPE OUT CSE OUT CFG(1) D-FG RF SW P REF 25 TEST 2 25 CTL N.C CTL-P(D) SPE OUT CTL 1/0 CK OUT CTL IN DPE OUT DSE OUT OSC-ENA VDD
CN4002 TRAC - TRAC + TO SY-2 CN3203
TO VIDEO CIRCUIT: V LOCK PULSE FSC RF SW PULSE COMPO SYNC
CN4003 TO HEAD MOTOR: HEAD PG(+) HEAD PG(-) HEAD FG(+) HEAD FG(-)
CN4008 CHECKER: RF SW PULSE COMPO SYNC GND CTL
TO VIDEO CIRCUIT: ALWAYS 15V ALWAYS 5.6V GND REG 9V ALWAYS 12V MC GND MH GND
CN4004 TO CAPSTAN MOTOR: ALWAYS 15V MC GND REG 9V MC-VS MC-F/R MC FG GND
CN4005 CTL (+) CTL (-)
SVR4001 CH-1 SW POSITION
SVR4002 CH-2 SW POSITION
SVR4003 MAIN TRACKING
IC4002 LA7113
DFG AMP
CFG AMP
HEAD
CAP
CTL AMP2
CTL AMP1
REC CTL
IC4151 BAL6309
GND Vcc MODE SELECT MM1 MM2 MM3
IC4003 LB1620
CD STOP GND FCW FCV FCU VCC1 U OUT V OUT W OUT EC F/R U1 U2 V1 V2 W1 W2 VCC2 RF
CN4006
1 HALL BIAS(-)
2 V COIL
3 W COIL
4 U COIL
5 HALL BIAS(+)
6 HU (+)
7 HU (-)
8 HV (+)
9 HV (-)
10 HW (+)
11 HW (-)
TO HEAD MOTOR
B4001~B4004 : 2SC3399 OR RN1204
Q4002 Q4101 : 2SC945A OR 2SC2603F
VOLTAGE : PB MODE
:Capstan Speed Loop
:Capstan Phase (REC)
:Capstan Phase (P.B.)
:Capstan CTL Signal
:Drum Speed Loop
:Drum Phase Loop
:Drum CTL Signal

G
VHR-1100E

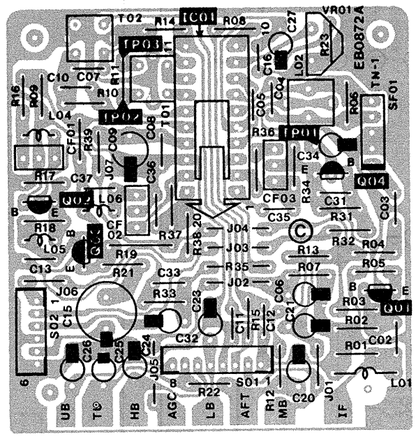
P.C.B. TN-1 TUNER I.F. CI 3-9-4300-71700)



P.C.B. TN-2 TIMER, CHANNEL PRE-SET P.C.B. (143-0-230V96921)

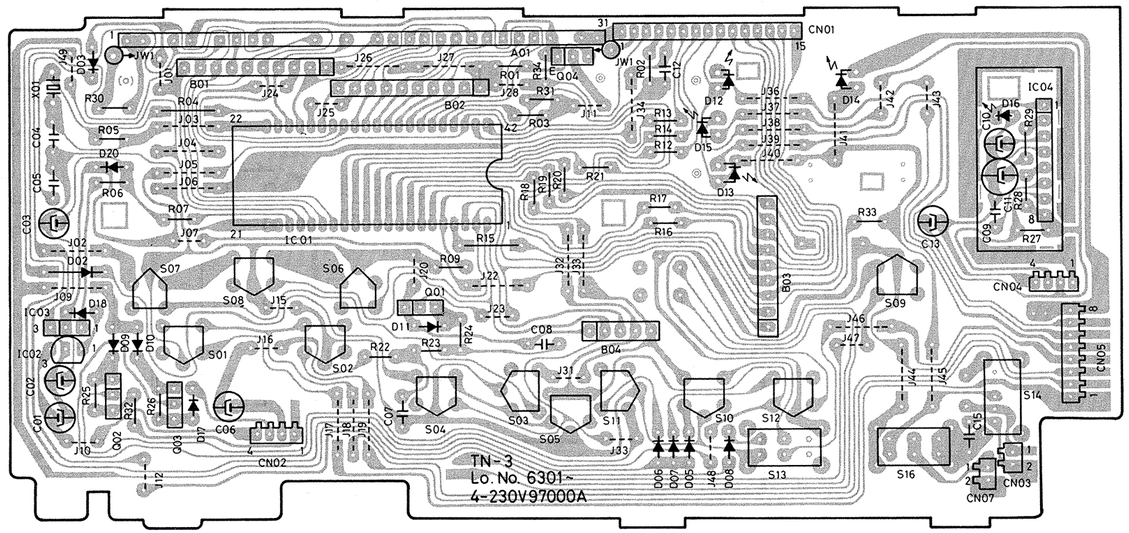


TUNER Ass'y No.	143-9-4300-67201	143-9-4300-71700
TUNER	4-115V-17600	4-115V-23000
Q6003	2SA564A	2SA608
R6016	560	470
R6018	2.2k	3.3k



PARTS SIDE VIEW

P.C.B. TN-3 OPERATION DISPLAY P.C.B. (143-0-230V97021)



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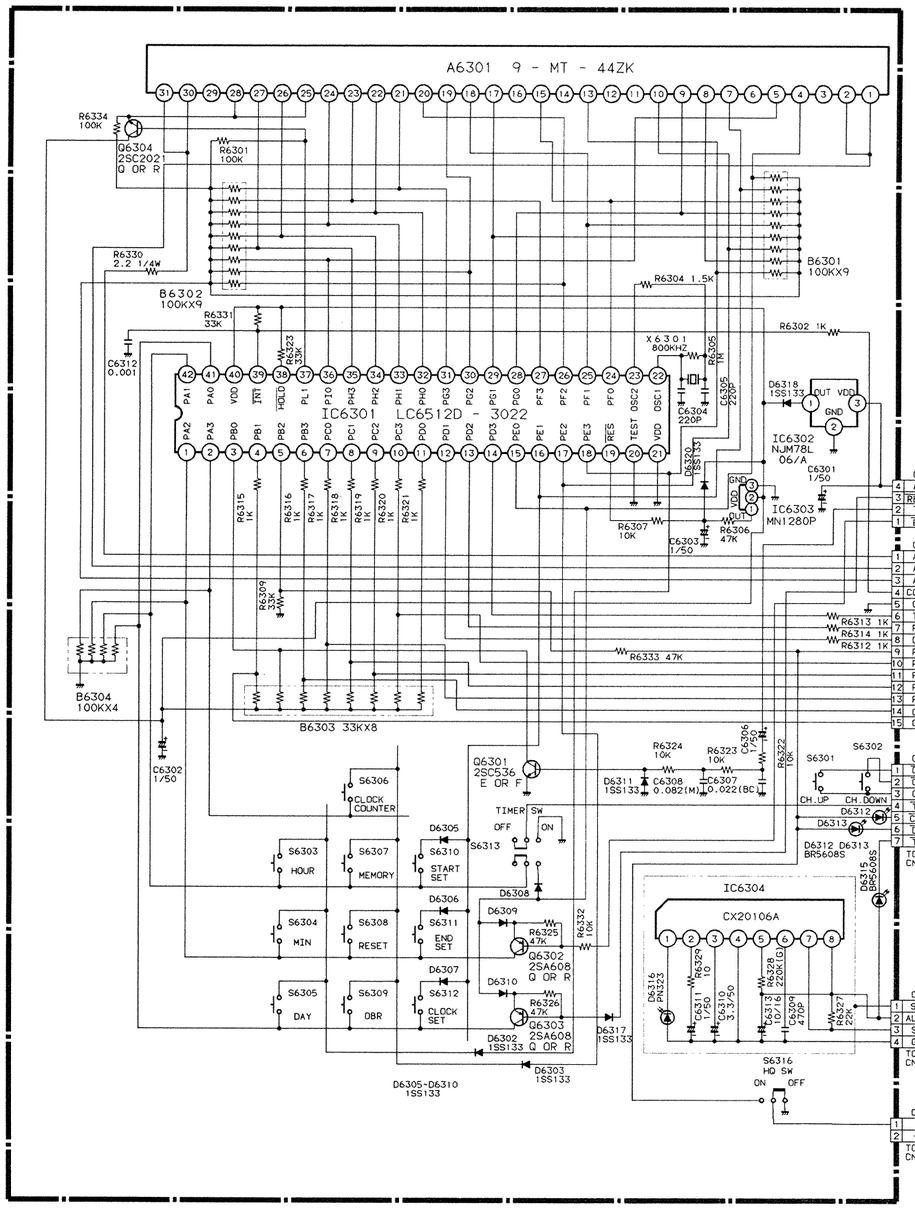
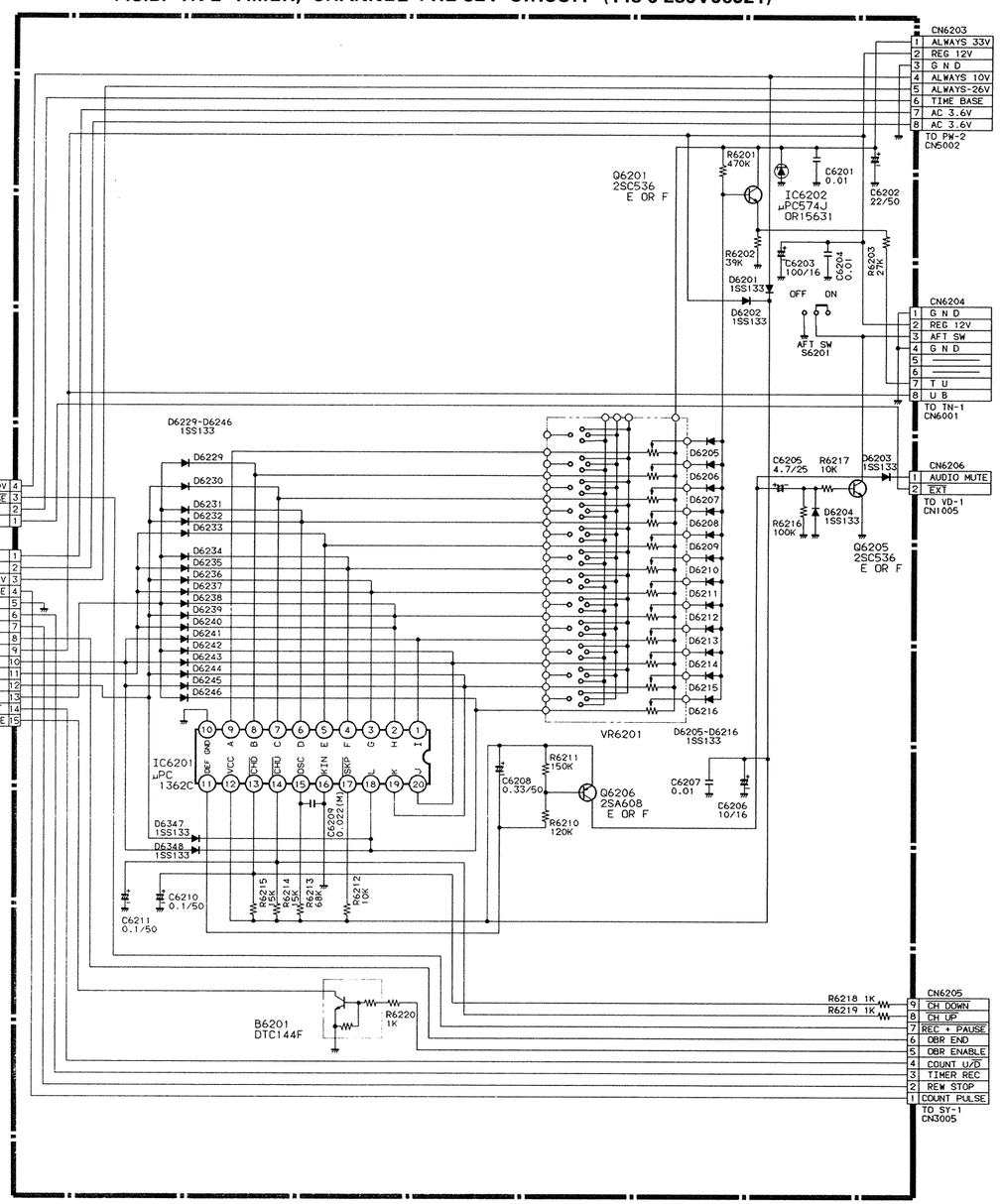
P.C.B. TN-3 OPERATION DISPLAY CIRCUIT (143-0-230V97021)



P.C.B. TN-2 TIMER, CHANNEL PRE-SET CIRCUIT (143-0-230V96921)



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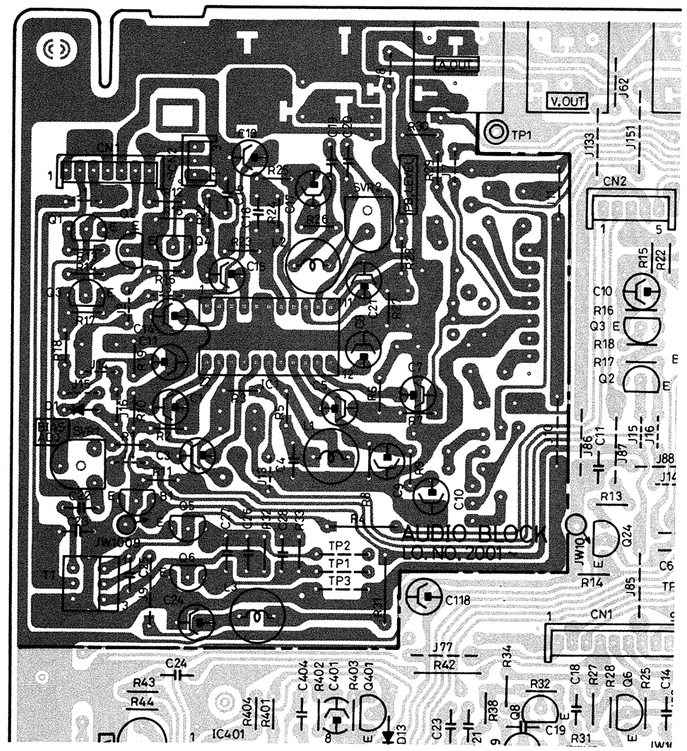
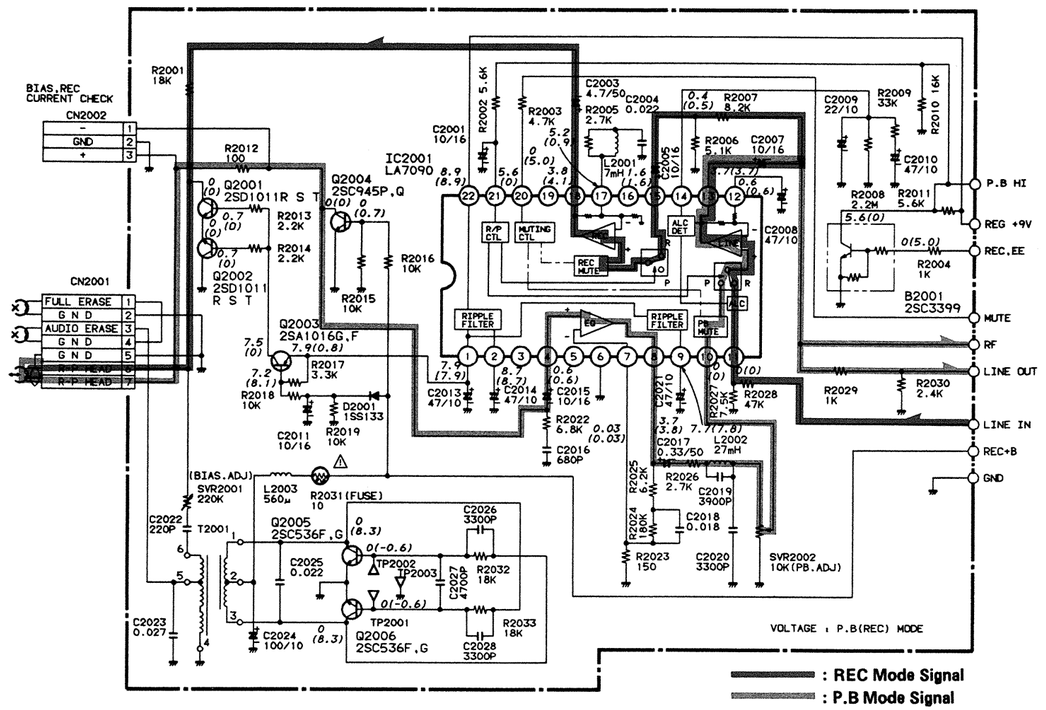
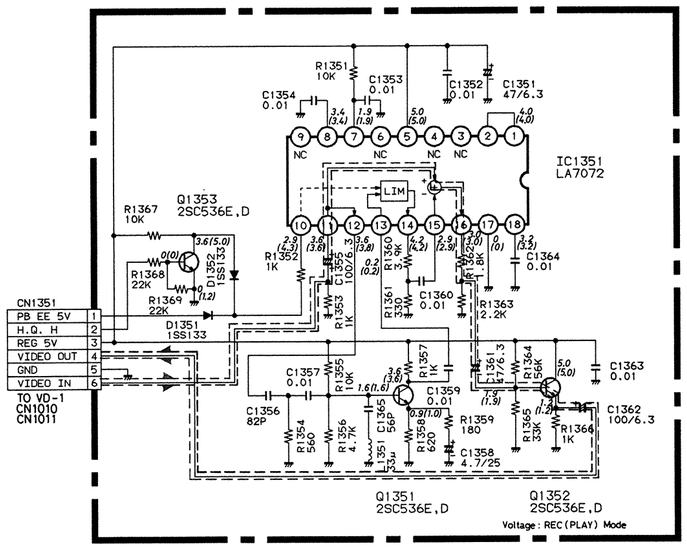
P.C.B. VD-1 AUDIO CIRCUIT & P.C.B. (143-0-230V84330)

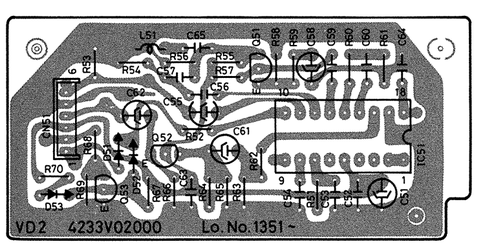




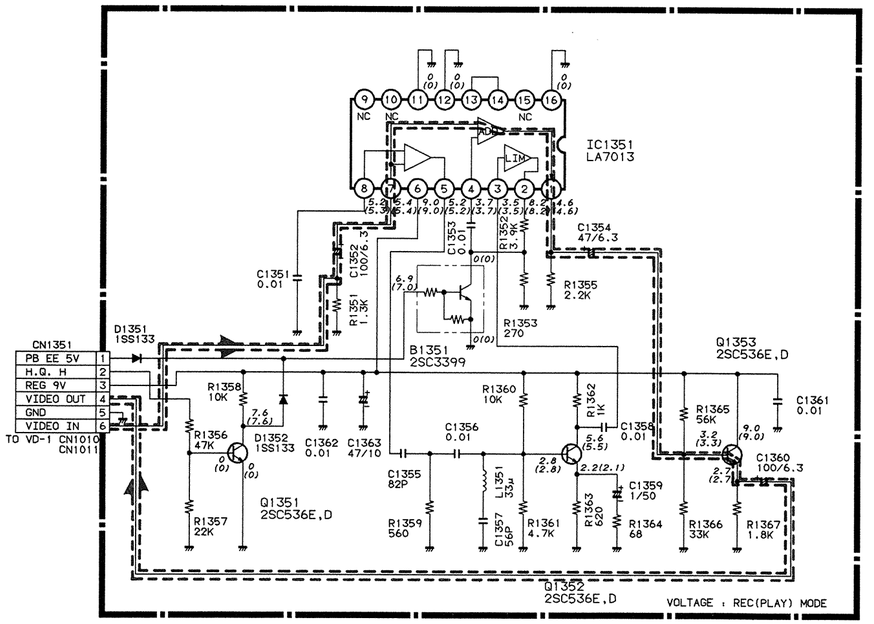
P.C.B. VD-2 VIDEO CIRCUIT & P.C.B. (143-0-233V02000)



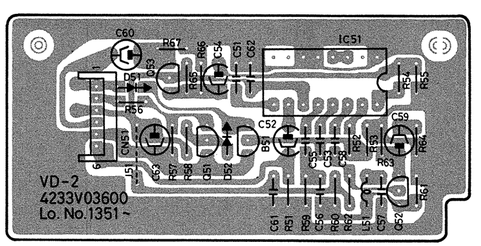
——: REC Y
——: PB Y



P.C.B. VD-2 VIDEO CIRCUIT & P.C.B. (143-0-233V-03600)

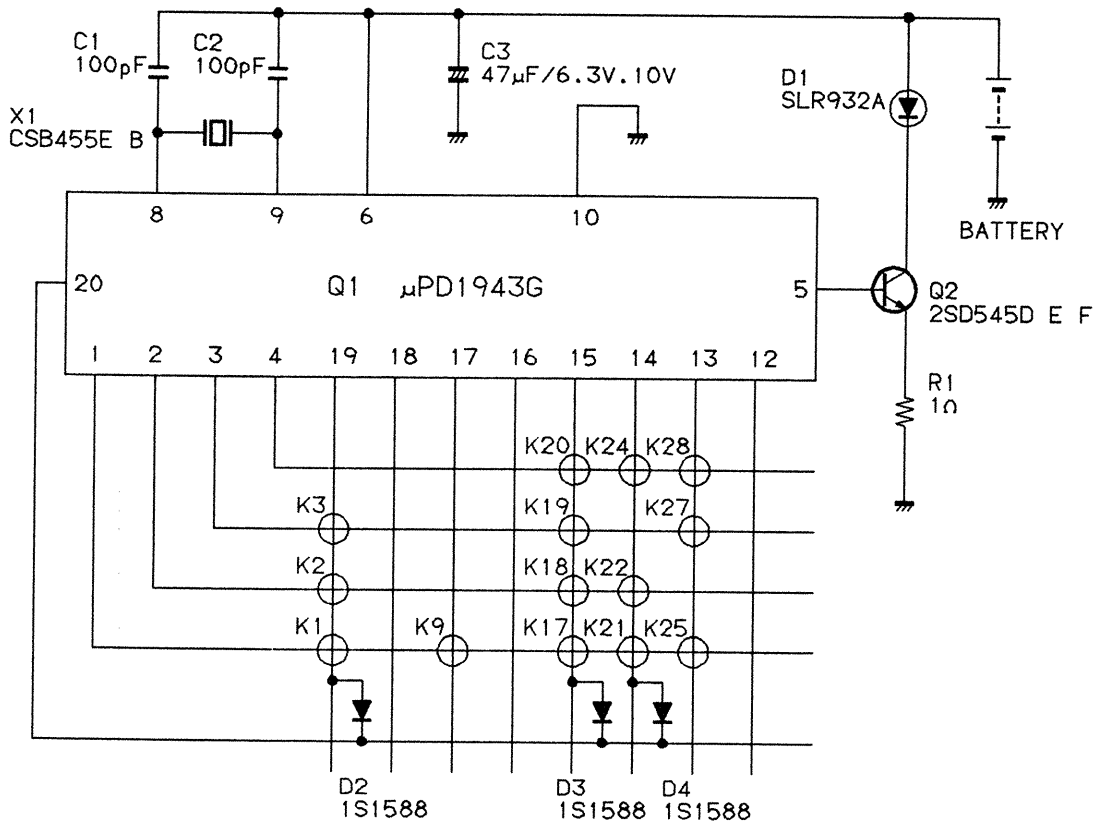


——: REC Y
——: PB Y



K
VHR-1100E

IR REMOTE CONTROL CIRCUIT (143-9-4100-62382)



K1	POWER	K20	FF
K2	CH UP	K21	PLAY
K3	CH DOWN	K22	REC
K9	VCR/TV	K24	FRAME-ADV
K17	STOP	K25	REV-PLAY
K18	PAUSE/STL	K27	1/10 SLOW
K19	REW	K28	1/5 SLOW